

**NHS BLOOD AND TRANSPLANT**  
**CARDIOTHORACIC ADVISORY GROUP**

**GRADING OF RETRIEVED ORGAN FORM RETURN RATES**

**INTRODUCTION**

1. **Grading of Retrieved Donor Heart (FRM5722) and Grading of Retrieved Donor Lung(s) (FRM5721)** forms (see Appendix) were introduced as a pilot on 18 January 2017 for all hearts and lungs that were retrieved for the intention of transplantation. One copy of these grading forms should be completed by the lead retrieval surgeon after retrieval, and one copy by the lead recipient (transplant) surgeon on receipt of the organ, prior to implantation.
2. This report presents return rates for hearts and lungs retrieved between 18 January 2017 and 28 February 2017. Any forms returned after 7 March 2017 were not considered in the analysis.

**RESULTS**

**Heart**

**Table 1a Grading of Retrieved Donor Heart form return rate by heart retrieval team**

Retrieval team	Hearts retrieved		Grading form submitted	
	N		N	%
Birmingham CT team	3		1	33
Glasgow CT team	0		-	-
Harefield CT team	3		2	67
Manchester CT team	2		2	100
Newcastle CT team	2		0	0
Papworth CT team	5		1	20
<b>Total</b>	<b>15</b>		<b>6</b>	<b>40</b>

**Table 1b Grading of Retrieved Donor Heart form return rate by heart transplant team**

Transplant team	Hearts received		Grading form submitted	
	N		N	%
Birmingham	2		0	0
Glasgow	0		-	-
Harefield	1		0	0
Manchester	3		2	67
Newcastle	4		0	0
Papworth	5		0	0
<b>Total</b>	<b>15</b>		<b>2</b>	<b>13</b>

## Lung

<b>Table 2a Grading of Retrieved Donor Lung form return rate by lung retrieval team</b>				
Retrieval team	Lungs retrieved		Grading form submitted	
	N		N	%
<b>Bilateral</b>				
Birmingham CT team	4		1	25
Glasgow CT team	2		2	100
Harefield CT team	4		4	100
Manchester CT team	2		1	50
Newcastle CT team	2		0	0
Papworth CT team	2		2	100
<b>Single</b>				
Harefield CT team	1		1	100
Manchester CT team	1		0	0
<b>Total</b>	<b>18</b>		<b>11</b>	<b>61</b>

<b>Table 2b Grading of Retrieved Donor Lung form return rate by lung transplant team</b>				
Transplant team	Lungs received		Grading form submitted	
	N		N	%
<b>Bilateral</b>				
Birmingham	2		1	50
Harefield	4		3	75
Manchester	3		2	67
Newcastle	3		0	0
Papworth	4		0	0
<b>Single</b>				
Manchester	1		1	100
Papworth	1		0	0
<b>Total</b>	<b>18</b>		<b>7</b>	<b>39</b>

## CONCLUSIONS

3. Early return rates for these new forms are better from retrieval surgeons than from recipient surgeons. Forms are expected from both teams and the forms should be completed electronically, as stated on the front of the forms and in the user guidance that was distributed with the forms.
4. Any issues identified when using these forms should be emailed to [CardiothoracicStatistics@nhsbt.nhs.uk](mailto:CardiothoracicStatistics@nhsbt.nhs.uk).
5. The data will be analysed once enough forms have been received. It has yet to be decided what will happen at the end of the pilot period, which is due to end on 18<sup>th</sup> April 2017.

Appendix – screen shots of Grading of Retrieved Donor Heart (FRM5722) and Grading of Retrieved Donor Lung(s) (FRM5721)

Heart

UK TRANSPLANT REGISTRY		<b>Submit form</b>	*Mandatory field	<b>NHS</b> <i>Blood and Transplant</i>
<b>DONOR DETAILS</b> <span style="float: right;">Section 1</span>				
Date donor notified*	<input type="text"/>	Donor hospital	<input type="text"/>	ODT Donor number*
<b>Heart Structure</b> <span style="float: right;">Section 2</span>				
<i>(Please tick ONE of the following options) *</i>				
<input checked="" type="checkbox"/> H0 No repair to heart required	<input type="text"/>			
<input checked="" type="checkbox"/> H1 Repair required – will not affect function (please specify):	<input type="text"/>			
<input checked="" type="checkbox"/> H2 Repair required – will affect function (please specify):	<input type="text"/>			
<input checked="" type="checkbox"/> H3 Damage beyond repair (please specify):	<input type="text"/>			
Suffix: <i>(Please tick all that apply)</i>				
<input type="checkbox"/> a = ASD or PFO present				
<input type="checkbox"/> b = bicuspid aortic valve				
<input type="checkbox"/> c = congenital anomaly (please specify):	<input type="text"/>			
<input type="checkbox"/> p = palpable coronary disease (please specify):	<input type="text"/>			
<b>Vascular Cuffs</b> <span style="float: right;">Section 3</span>				
<i>(Please tick ONE of the following options) *</i>				
<input checked="" type="checkbox"/> V0 Tissue to spare	<input type="text"/>			
<input checked="" type="checkbox"/> V1 No tissue to spare (please specify):	<input type="text"/>			
<input checked="" type="checkbox"/> V2 Material required to bridge anastomosis (please specify):	<input type="text"/>			
<b>Completed by</b> <span style="float: right;">Section 4</span>				
<input checked="" type="checkbox"/> Lead retrieval surgeon (forename & surname):	<input type="text"/>	NORS team*	<input type="text"/>	
OR				
<input checked="" type="checkbox"/> Lead recipient surgeon (forename & surname):	<input type="text"/>	Recipient centre*	<input type="text"/>	
Recipient surgeon ONLY, grade communication from retrieval surgeon <i>(Please tick ONE of the following options) *</i>				
<input checked="" type="checkbox"/> C0 Excellent	<input checked="" type="checkbox"/> C1 Good	<input checked="" type="checkbox"/> C2 Average	<input checked="" type="checkbox"/> C3 Poor	<input checked="" type="checkbox"/> C4 Required but omitted
				<input checked="" type="checkbox"/> NR Not required
Comments:	<input type="text"/>			
FRM5722/1	Effective: 18/01/2017			

Lung

UK TRANSPLANT REGISTRY		<b>Submit form</b>	*Mandatory field	<b>NHS</b> <i>Blood and Transplant</i>
<b>DONOR DETAILS</b> <span style="float: right;">Section 1</span>				
Date donor notified*	<input type="text"/>	Donor hospital	<input type="text"/>	ODT Donor number*
<b>Lung Structure</b> <span style="float: right;">Section 2</span>				
<i>(Please tick ONE of the following options) *</i>				
<input checked="" type="checkbox"/> L0 No lung parenchymal injury	<input checked="" type="checkbox"/> B Bilateral lungs	<input checked="" type="checkbox"/> LS Left single lung	<input checked="" type="checkbox"/> RS Right single lung	
<input checked="" type="checkbox"/> L1 Lung parenchymal injury requiring repair (please specify):	<input type="text"/>			
<input checked="" type="checkbox"/> L2 Lung injury requiring lung resection (please specify):	<input type="text"/>			
<input checked="" type="checkbox"/> L3 Lung untransplantable (please specify):	<input type="text"/>			
Suffix: <i>(Please tick all that apply)</i>				
<input type="checkbox"/> h = "hyper-inflated"	<input type="checkbox"/> u = "under inflated with atelectasis"			
<input type="checkbox"/> b = bullous disease (please specify):	<input type="text"/>			
<b>Airway</b> <span style="float: right;">Section 3</span>				
<i>(Please tick ONE of the following options) *</i>				
<input checked="" type="checkbox"/> A0 Airway to spare	<input checked="" type="checkbox"/> A1 No airway to spare			
<input checked="" type="checkbox"/> A2 Airway repair required (please specify):	<input type="text"/>			
Suffix: <i>(Please tick if applicable)</i>				
<input type="checkbox"/> d = airway denude of surrounding tissues				
<b>Vascular Cuffs</b> <span style="float: right;">Section 4</span>				
<i>(Please tick ONE of the following options) *</i>				
<input checked="" type="checkbox"/> V0 Tissue to spare	<input type="text"/>			
<input checked="" type="checkbox"/> V1 No tissue to spare (please specify):	<input type="text"/>			
<input checked="" type="checkbox"/> V2 Material required to bridge anastomosis (please specify):	<input type="text"/>			
<b>Completed by</b> <span style="float: right;">Section 5</span>				
<input checked="" type="checkbox"/> Lead retrieval surgeon (forename & surname):	<input type="text"/>	NORS team*	<input type="text"/>	
OR				
<input checked="" type="checkbox"/> Lead recipient surgeon (forename & surname):	<input type="text"/>	Recipient centre*	<input type="text"/>	
Recipient surgeon ONLY, grade communication from retrieval surgeon <i>(Please tick ONE of the following options) *</i>				
<input checked="" type="checkbox"/> C0 Excellent	<input checked="" type="checkbox"/> C1 Good	<input checked="" type="checkbox"/> C2 Average	<input checked="" type="checkbox"/> C3 Poor	<input checked="" type="checkbox"/> C4 Required but omitted
				<input checked="" type="checkbox"/> NR Not required
Comments:	<input type="text"/>			
FRM5721/1	Effective: 18/01/2017			