

# NHS BLOOD AND TRANSPLANT

## CARDIOTHORACIC ADVISORY GROUP

### SUMMARY FROM STATISTICS AND CLINICAL STUDIES

#### INTRODUCTION

- 1 This paper provides an update from Statistics and Clinical Studies and summarises recent presentations, publications, and current and future work in the area of cardiothoracic transplantation.

#### UPDATE FROM STATISTICS AND CLINICAL STUDIES

- 2 The Annual Activity report for 2016/17 is in progress and will be published in the summer. It will show another record breaking year for deceased donors and deceased donor transplants.
- 3 New and updated reports, all Advisory Group papers and conference presentations continue to be posted on [www.odt.nhs.uk](http://www.odt.nhs.uk) so that they are publically available. We have been collecting feedback on all of our Organ Specific Annual Reports via an online survey and the responses are currently being reviewed in order for improvements to be made to this year's reports.
- 4 Professor Dave Collett will be retiring at the end of June 2017.
- 5 Please note our current arrangements for staff responsibilities.

Area	Lead	Support(s)
Donation	Susanna Madden	Rebecca Curtis, Esther Wong
Organ retrieval	Kate Martin	Rachel Hogg
Enquiries	Mark Jones	<a href="mailto:Statistical.enquiries@nhsbt.nhs.uk">Statistical.enquiries@nhsbt.nhs.uk</a>
Kidney transplantation	Lisa Mumford	Chloe Brown, Sophie Hughes, Matthew Robb
Pancreas transplantation	Claire Counter	Jo Bunnett
Liver transplantation	Elisa Allen	Cathy Hopkinson, Agne Zarankaite
Small bowel transplantation	Elisa Allen	Rachel Hogg
Cardiothoracic transplantation	Sally Rushton	Rachel Hogg, Esther Wong

#### PRESENTATIONS

- 6 A presentation was given at the opening NHSBT session of the 2017 British Transplantation Society Congress entitled "Recent Developments in Cardiothoracic Transplantation", covering recent transplant activity and changes in heart and lung allocation. The slides can be viewed online here: <http://www.odt.nhs.uk/statistics-and-reports/slides-and-presentations/>.

**CURRENT AND FUTURE WORK**

- 7 The 2016 Annual Report on Ventricular Assist Devices was published in February 2017 with a prominent disclaimer concerning missing data: <http://www.odt.nhs.uk/statistics-and-reports/organ-specific-reports/>. We are currently working with the VAD clinicians on the CTAG Clinical Audit Group and NHS England to understand the issues causing incomplete data capture on the VAD Database.
- 8 The 2016 Interim Report on Cardiothoracic Transplantation was published in February 2017, covering three years' worth of heart and lung transplant data, from 1 October 2013 to 30 September 2016: <http://www.odt.nhs.uk/statistics-and-reports/organ-specific-reports/>. The national unadjusted short-term survival rates presented were slightly lower than those reported in the 2015 Interim Report. A steady fall in lung transplant activity in recent years was also reported.
- 9 Ongoing support has been provided to the NHSBT HUB team and the ODT Duty Office to facilitate implementation of CTAG agreed allocation policies, in particular the Super-Urgent and Urgent Lung Allocation Schemes and the split heart and lung allocation zones which are due to go live in May 2017.
- 10 Support is being provided for the collection of organ retrieval data via the Grading of Retrieved Donor Heart and Lung forms, during the pilot period. Early return rates are presented in the CTAG Core Group section of the agenda.
- 11 Statistical support is provided by Rachel Hogg, Esther Wong and Sally Rushton to a large number of projects as described in the CTAG Clinical Audit Group Chairman's Report, in particular, the Bridge to Candidacy VAD project led by Steve Shaw, the Brainstem Death to Organ Retrieval project led by Rajamiyer Venkateswaran, the long-term VAD Outcomes project led by Jayan Parameshwar and the Outcomes from Listing for Lung Transplantation led by Jasvir Parmar.
- 12 We have also been working collaboratively with Aravinda Page and Sanjeet Singh, the CTAG Clinical Audit Fellows.
- 13 Projects and regular reports in the cardiothoracic area that require resource from Statistics and Clinical Studies are outlined in **Table 1** and **Table 2** respectively.

**Sally Rushton**  
**Statistics and Clinical Studies**

**April 2017**

**Table 1 Fixed Term Projects**

	<b>Title</b>	<b>Planned completion date</b>	<b>Current priority</b>	<b>S&amp;CS resource reqd</b>
1	Heart Allocation Working Group (HAWG) Support implementation of Urgent Heart-Lung Allocation Scheme	September 2017	***	**
2	Lung Allocation Working Group (LAWG) Support implementation of Super-Urgent and Urgent Lung Allocation Scheme	May 2017	***	**
	Support implementation of separate heart and lung allocation zones	May 2017	***	**
3	Paediatric Allocation Working Group Support implementation of national paediatric organ allocation	Unknown	**	**
4	Scout Project Provide analytical support to the Scout Project	Unknown	***	***
5	DCD Heart Programme Provide analytical support to the DCD Heart Steering Group	Ongoing	***	**
6	Implementation of new data collection fields			
	Grading of retrieved organs	Spring 2017 end of pilot	***	**
	Ischaemia time and perfusion techniques	Dependent on IT support	***	**
	Decline reasons	Dependent on IT support	**	**
	Update Transplant Record form	Dependent on IT support	*	**
7	Long-term VAD outcomes analysis	Spring 2017	**	***
8	Impact of duration between brain stem death and retrieval on heart utilisation and post-transplant outcomes	Spring 2017	**	***
9	Impact of duration between brain stem death and retrieval on lung utilisation and post-transplant outcomes	Spring 2017	**	***
10	Analysis of impact of ischaemia time on lung transplant outcomes	Spring 2017	**	***
11	Outcomes from lung listing analysis	Spring 2017	**	***
12	Analysis of Bridge to Candidacy patient on the VAD Database	Autumn 2017	***	***
13	Comparison of LVAD implantation and heart transplantation as treatments for advanced HF	To begin	*	***
14	DCD lung transplant outcome analysis	On-hold	*	***

15	Primary graft dysfunction following heart transplantation analysis	Autumn 2017	*	***
16	Provide support to NHS England and NHS Scotland funded Clinical Fellows	Ongoing	**	*
17	Making improvements to Annual Reports on Cardiothoracic Transplantation and VADs	Summer 2017	***	***

**Table 2 Regular Reports**

	<b>Title</b>	<b>Frequency</b>	<b>Current priority</b>	<b>Time taken</b>
1	Summary of CUSUM signals	Twice yearly	**	< 2 hours
2	Heart-Lung transplant outcomes	Twice yearly	**	<2 hours
3	Patient Support Group meeting	Twice yearly	***	One week
4	Urgent Heart Allocation Scheme annual review	Annually	**	One week
5	Characteristics of urgent patients	Annually	***	Two days
6	<i>National standards for donor id, care and management</i>	<i>Discontinued until forms are revised</i>	*	<i>Half day</i>
7	Zonal activity review and adjustment of zonal boundaries if required	Annually	**	One week
8	Prolonged registrations	Annually	*	Half day
9	Fast track scheme review	Biennial	*	One day
10	<i>Audit of ischaemia time components</i>	<i>Annually (once data collection process is in place)</i>	*	<i>One day</i>
11	Annual Report on Cardiothoracic Transplantation (for NHS England and the website)	Annually	***	One month
12	Interim Report on Cardiothoracic Transplantation (for NHS England and the website)	Annually	***	Two weeks
13	Annual Report on Ventricular Assist Devices (for NHS England and the website)	Annually	***	Two weeks
14	Monthly reporting of transplant and VAD numbers to NHS England	Monthly	***	Half day
15	Centre specific organ offer reports	Monthly	**	Half day
16	CUSUM reports to centres	Monthly	***	Half day
17	Organ damage and usage reports to NORS teams	Monthly	***	<2 hours
18	<i>Cardiothoracic NORS KPIs</i>	<i>Monthly/quarterly (in development)</i>	***	<i>One day</i>
19	<i>Regular data submission to METHODS for cardiothoracic transplant dashboard for NHS England</i>	<i>Annually (in development)</i>	**	<i>One day</i>