

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 organ transplantation.

UPDATE FROM STATISTICS AND CLINICAL STUDIES

- 2 The *Organ Donation and Transplantation Annual Activity Report for 2016/17* was published in July 2017, reporting a total of 4,753 live-saving and life-transforming transplants last financial year. The report can be accessed via: <http://www.odt.nhs.uk/statistics-and-reports/annual-activity-report/>
- 3 New and updated reports, all Advisory Group papers and conference presentations continue to be posted on the new ODT Clinical Site www.odt.nhs.uk. At time of writing the 2017 Annual Reports on Kidney and Pancreas have been published with the remaining reports in development or out for stakeholder review. All reports will incorporate feedback from the Organ Specific Annual Reports Survey which was conducted earlier this year.
- 4 In June we said farewell to Professor Dave Collett after 14 years as head of the department. Rachel Johnson has been appointed as Dave's successor.
- 5 Please note our current arrangements for staff responsibilities below.

Area	Lead	Support(s)
Donation	Susanna Madden	Rebecca Curtis, Esther Wong
Organ retrieval	Kate Martin	Sophie Hughes
Enquiries	Mark Jones	Statistical.enquiries@nhsbt.nhs.uk
Kidney transplantation	Lisa Mumford	Chloe Brown, 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 There are no recent presentations, however we are assisting clinicians with abstracts for the 2018 International Society for Heart & Lung Transplantation (ISHLT) Annual Meeting.

CURRENT AND FUTURE WORK

- 7 A draft of the 2017 Annual Report on Cardiothoracic Organ Transplantation has been produced and will be circulated to centres for review imminently with the aim of publishing by the end of September.
- 8 The 2017 Annual Report on Ventricular Assist Devices is currently in development with revised and simplified content. The relevance of this report relies on complete data on VAD implants being reported on the UK VAD Database. Please see **Table 1** for the number of implants reported by each centre between 1 April 2016 and 31 March 2017. If this does not reflect the actual numbers at your centre, please address this as soon as possible by updating the database.
- 9 Work is being done to explore the cost and resource associated with a major overhaul of the VAD Database, hosted by NHSBT, with the aim of making it more user-friendly for those inputting and analysing the data, whilst maintaining its function as an important resource for audit and project work.
- 10 Ongoing support has been provided to the NHSBT HUB team, the ODT Duty Office, and to transplant centres to help inform improvements in cardiothoracic organ offering following the implementation of the new Lung Allocation Schemes in May 2017.
- 11 Statistical support has also been provided to the Paediatric Organ Allocation Working Group.
- 12 All projects and regular reports in the cardiothoracic area that require resource from Statistics and Clinical Studies are outlined in **Table 2** and **Table 3** respectively.

Sally Rushton
Statistics and Clinical Studies

August 2017

Table 1 VAD implants recorded on the UK VAD database for 2016/17 by centre, as at 1 September 2017

Centre		Number of implants
Adult	Birmingham	51
	Glasgow	9
	Harefield	55
	Manchester	45
	Newcastle	28
	Papworth	27
Paediatric	GOSH	9
	Newcastle	10
Total		234

Table 2 Fixed Term Projects

	Title	Planned completion date	Current priority	S&CS resource reqd
1	Heart Allocation Working Group (HAWG) Formalisation of Urgent Heart-Lung Allocation Scheme Support review of age cut-off rules	Spring 2018 Spring 2018	*** **	**
2	Lung Allocation Working Group (LAWG) Support implementation of separate heart and lung allocation zones	Dec 2017	***	**
3	Paediatric Allocation Working Group Support implementation of clinically appropriate paediatric organ allocation	Unknown	**	**
4	Scout Project Support scout sub-group of NORS Workforce Transformation Board	Ongoing	***	***
5	DCD Heart Programme Provide analytical support to ODT Commissioning and RINTAG	Ongoing	***	**
6	Implementation of new data collection fields Grading of retrieved organs Ischaemia time and perfusion techniques Decline reasons Update Transplant Record form	Ongoing Unknown Spring 2018 No resource	*** *** ** *	** ** ** **
7	Long-term VAD outcomes analysis	Autumn 2017	**	***
8	Impact of duration between brain stem death and retrieval on heart utilisation and post-transplant outcomes	Autumn 2017	**	***
9	Impact of duration between brain stem death and retrieval on lung utilisation and post-transplant outcomes	Autumn 2017	**	***
10	Analysis of impact of ischaemia time on lung transplant outcomes	Autumn 2017	**	***
11	Outcomes from lung listing analysis	Autumn 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	Spring 2018	*	***

Table 2 Fixed Term Projects

	Title	Planned completion date	Current priority	S&CS resource reqd
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	***	***
18	Review and revise data submission to ISHLT	Autumn 2017	**	**

Table 3 Regular Reports

	Title	Frequency	Current priority	Time taken
1	Summary of CUSUM signals	Biannually	**	< 2 hours
2	Heart-Lung transplant outcomes	Biannually	**	<2 hours
3	Patient Support Group meeting	Biannually	***	One day
4	Urgent/Super-Urgent Heart Allocation Scheme annual review	Annually	***	One week
5	Urgent/Super-Urgent Lung Allocation Scheme annual review	Annually	***	One week
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	Weekly, Monthly and Quarterly	**	Half day
16	CUSUM reports to centres	Monthly	***	Half day

Table 3 Regular Reports

	Title	Frequency	Current priority	Time taken
17	Organ damage and usage reports to NORS teams	Monthly	***	<2 hours
18	<i>Cardiothoracic NORS KPIs</i>	<i>Monthly/quarterly (in development by KM)</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>
20	VAD data chasing reports	Monthly/quarterly	**	<2 hours
21	Harefield transplant record report	Quarterly	*	<2 hours
22	Glasgow survival report	Biannually	*	<2 hours
23	Weekly list of non-urgent patients sent to centres	Weekly	*	<2 hours