

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, current and future work related to cardiothoracic transplantation.

UPDATE FROM STATISTICS AND CLINICAL STUDIES

- 2 The 2015/16 Annual Organ Donation and Transplantation Activity Report has been published, showing a record breaking year for deceased donors and deceased donor transplants. The report, with an accompanying slide set available for general use, can be found here - <http://www.odt.nhs.uk/uk-transplant-registry/annual-activity-report/>.
- 3 The third Annual Report on Cardiothoracic Transplantation was published by NHSBT in July 2016, presenting data from the last 10 years on patients on the transplant list, number of transplants and survival after transplantation on a national and centre-specific basis. All organ specific annual reports are available, with accompanying slide sets for general use, from <http://www.odt.nhs.uk/uk-transplant-registry/organ-specific-reports>. Please complete the survey that can also be accessed via this link to provide your feedback on these reports.
- 4 The third Annual Report on Ventricular Assist Devices (VADs) has been produced by NHSBT however publication has been postponed due to concerns with data completeness, as agreed between NHSBT and NHS England. A subsequent audit of the VAD data held by NHSBT and by NHS England and NHS Scotland was conducted, which will be presented in the CTAG Heart meeting for discussion.

CURRENT AND FUTURE WORK

- 5 Statistical results were provided for the Scout Project Peer Review meeting on 12 September, presented by Steven Tsui, Paul Murphy and Aravinda Page.
- 6 Ongoing support is provided to both the heart and lung allocation working groups in terms of project implementation. The new heart allocation scheme, including a super-urgent heart tier, is currently in the process of being implemented. Statistical support is required in translating clinical requirements in to IT system functional requirements and in amending automated processes to accommodate for these forthcoming changes to the allocation scheme. The same level of support is being provided simultaneously for the new lung allocation scheme.
- 7 Support is provided to the DCD Heart Programme Service Evaluation. Final results of the statistical analysis were submitted to the Steering Group for inclusion in the NHSBT Business Case. A paper is now being drafted for journal submission.

- 8 Statistical support is provided to a large number of projects as described in the CTAG Clinical Audit Group Chairman's Report.
- 9 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.

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Table 1 Fixed Term Projects				
	Title	Planned completion date	Current priority	S&CS resource reqd
1	Heart allocation working group (HAWG)			
	Support implementation of Super Urgent Heart project	Autumn 2016	***	**
	Support implementation of urgent Heart-Lung project	Winter 2016	***	**
2	Lung allocation working group (LAWG)			
	Support implementation of Super Urgent Lung project	Winter 2016	***	**
	Support implementation of separate heart and lung allocation zones	Winter 2016	***	**
3	Scout Project			
	Provide analytical support to the Scout Project Working Group	Ongoing	***	***
4	DCD Heart Programme Service Evaluation			
	Provide analytical support to the Service Evaluation Working Group	Ongoing	***	**
5	Implementation of new data collection fields			
	Ischaemia time and perfusion techniques	Dependent on IT support	***	**
	Decline reasons	Dependent on IT support	**	**
	Update Transplant Record form	Dependent on IT support	*	**
6	Data collection on antibody incompatible transplants	Ongoing	*	**
7	Long-term VAD outcomes analysis	Autumn/Winter 2016	**	***
8	Impact of duration between brain stem death and retrieval on heart utilisation and post-transplant outcomes	Autumn 2016	**	***
9	Impact of duration between brain stem death and retrieval on lung utilisation and post-transplant outcomes	Autumn 2016	**	***

10	Analysis of impact of ischaemia time on lung transplant outcomes	Autumn 2016	**	***
11	Outcomes from lung listing analysis	Autumn 2016	**	***
12	Comparison of LVAD implantation and heart transplantation as treatments for advanced HF	To begin Autumn/Winter 2016	*	***
13	DCD lung transplant outcome analysis	Winter 2016	**	***
14	Primary graft dysfunction following heart transplantation analysis	Spring 2017	*	***
15	Provide support to NHS England and NHS Scotland funded Clinical Fellows	Ongoing	**	*

Table 2 Regular Reports

	Title	Frequency	Current priority	Time taken
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	UHAS annual review	Annually	**	One day
5	Characteristics of urgent patients	Annually	***	Two days
6	National standards for donor id, care and management	Discontinued until forms are revised	*	Half day
7	Zonal activity review and adjustment of zonal boundaries if required	Annually	**	One week
8	Access to heart transplantation by blood group	Annually	**	One day
9	Prolonged registrations	Annually	*	Half day
10	Monitoring of GOSH 20cm rule	Annually	*	Half day
11	Fast track scheme review	Biennial	*	One day
12	Audit of ischaemia time components	Annually (once data collection process is in place)	*	One day
13	Annual Organ Specific reports (for NHS England and the website)	Annually	***	One month
14	Interim Organ Specific report (for NHS England and the website)	Annually	***	Two weeks
15	Centre specific organ offer reports	Monthly	**	Half day