

NHS BLOOD AND TRANSPLANT
ORGAN DONATION AND TRANSPLANTATION DIRECTORATE
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.

UPDATE FROM STATISTICS AND CLINICAL STUDIES

- 2 The Annual Organ Donation and Transplantation Activity Report for 2014/15 has been published with an accompanying slide set that can be found here - <http://www.odt.nhs.uk/uk-transplant-registry/annual-activity-report/>.
- 3 The first Annual Organ Specific Report on Cardiothoracic transplantation was published by NHSBT in September 2014 and the second report covering 10 years of cardiothoracic transplant data to 31 March 2015 will be available imminently. It presents information on patients on the transplant list, number of transplants and survival after transplantation on a national and centre-specific basis. Reports for all organs are available from <http://www.odt.nhs.uk/uk-transplant-registry/organ-specific-reports>. Slide sets to accompany the reports are also planned.
- 4 The Annual Report on Ventricular Assist Devices (VADs) has also been published by NHSBT for the first time. The report was published in January 2015 and presents key figures about ventricular assist device (VAD) implantation in the UK over a 10-year period from 31 March 2014. It presents information on the number of VADs implanted and survival analysis after implant, both on a national and centre-specific basis. The report is also available from <http://www.odt.nhs.uk/uk-transplant-registry/organ-specific-reports>. An updated report is currently being worked on and will be available shortly.

CURRENT AND FUTURE WORK

- 5 Phase 2 of the Scout Project began on 1 April 2015. Electronic data collection forms are being sent to Jenny Lannon. Forms are being audited and analyses are run on a regular basis to assess the effect of scout attendance upon heart donation and transplantation rates.
- 6 Ongoing support is provided to both the heart and lung working groups in terms of project implementation. In particular, work is required to include urgent heart-lung patient registrations.
- 7 New risk-adjusted models have been developed with the CTAG Clinical Audit Group for 30-day, 1-year and 5-year patient survival following heart transplantation and for 90-day, 1-year and 5-year patient survival following lung transplantation.

- 8 The Annual Cardiothoracic Organ Specific Report has been drafted and sent to centre directors and to the CTAG Clinical Audit Group for review. Work is also in hand to produce the draft Annual VAD Organ Specific Report which will be sent out for review later this month.
- 9 Support is provided to the DCD Heart Programme Service Evaluation.
- 10 Statistical support is provided to a large number of projects as described in the CTAG Clinical Audit Group Chair's Report.
- 11 Fixed term projects, ongoing projects and regular reports that require resource from Statistics and Clinical Studies are outlined in **Table 1**, **Table 2** and **Table 3** respectively.

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	Dependent on IT support	***	**
	Selection and allocation for urgent Heart-Lung patients	Dependent on IT support	***	**
2	Lung allocation working group (LAWG)			
	a) Support implementation of Super Urgent Lung project	Dependent on IT support	***	**
	b) Standardisation of MDT processes for centre-based prioritisation (if urgent lung proposal not accepted/implementation does not progress)	Spring 2015	**	
3	Phase 2 Scout Pilot 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	Data collection on ischaemia time and reperfusion techniques	April 2016	***	***
6	Data collection on antibody incompatible transplants	Ongoing	*	**
7	Long-term VAD outcomes analysis	April 2016	**	***
8	Impact of duration between brain stem death and retrieval on heart utilisation and post-transplant outcomes	April 2016	**	***

9	Impact of duration between brain stem death and retrieval on lung utilisation and post-transplant outcomes	April 2016	**	***
10	ACHD activity and outcome project. Support Dr Mike Burch and Miss Amy Taylor with statistical analysis	Dec 2015	*	*
11	Analysis of impact of ischaemia time on lung transplant outcomes	April 2016	*	***
12	Outcomes from lung listing analysis	April 2016	**	***
13	Comparison of LVAD implantation and heart transplantation as treatments for advanced HF	April 2016	*	***
14	DCD lung transplant outcome analysis	April 2016	*	**
15	Provide support to NHS England and NHS Scotland funded Clinical Fellows	Ongoing	**	*

Table 2 Ongoing Projects

	Title	Planned completion date	Current priority	S&CA resource reqd
1	Patient Support Group meeting	Annually	***	*

Table 3 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	UHAS annual review	Annually	**	One day
4	Characteristics of urgent patients	Annually	***	Two days
5	National stds for donor id, care and mgmt	Discontinued until forms are revised	*	Half day
6	Zonal activity review and adjustment of zonal boundaries if required	Annually	**	One week
7	Blood group: Waiting time + deaths on list	Annually	**	One day
8	Prolonged registrations	Annually	*	Half day
9	Monitoring of GOSH 20cm rule	Annually	*	Half day
10	Fast track scheme review	Biennial	*	One day
11	Audit of ischaemia time components	Annually (once data collection process is in place)	*	One day
12	Annual Organ Specific reports (for NHS England and the website)	Annually	***	One month
13	Centre specific organ offer reports	Monthly	**	Half day

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