

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 New and updated reports, all Advisory Group papers and conference presentations continue to be posted on the ODT Clinical Site www.odt.nhs.uk. The following report has been published on the ODT Clinical Site and circulated to cardiothoracic centres and commissioners since the last CTAG meeting:

The 2020/21 Interim Report on Cardiothoracic Transplantation

- 3 Please note our current arrangements for staff responsibilities in support of organs and tissues. Sally Rushton resumed her role as lead statistician for cardiothoracic transplantation in December 2020, following maternity leave.

Area	Lead	Contact
Head of Organ Donation and Transplantation Studies	Lisa Mumford	lisa.mumford@nhsbt.nhs.uk
Organ donation	Susanna Madden	susanna.madden@nhsbt.nhs.uk
Organ retrieval	Rachel Hogg	rachel.hogg@nhsbt.nhs.uk
Ocular tissue	Cathy Hopkinson	cathy.hopkinson@nhsbt.nhs.uk
Organ utilisation	Susanna Madden	susanna.madden@nhsbt.nhs.uk
Enquiries		statistical.enquiries@nhsbt.nhs.uk
Kidney transplantation	Matthew Robb	matthew.robb@nhsbt.nhs.uk
Pancreas transplantation	Claire Counter	claire.counter@nhsbt.nhs.uk
Liver transplantation	Rhiannon Taylor	rhiannon.taylor@nhsbt.nhs.uk
Multi-visceral and Composite Tissue	Elisa Allen	elisa.allen@nhsbt.nhs.uk
Cardiothoracic transplantation	Sally Rushton	sally.rushton@nhsbt.nhs.uk

- 4 Statistics and Clinical Studies, comprising the Statistics Team and the Clinical Trials Unit, are joining together with the Research and Development (R&D) Office and the Systematic Review Initiative (SRI) within NHSBT to become “Statistics and Clinical Research” as of March 2021.

PRESENTATIONS

- 4 There are no recent presentations of note.

PUBLICATIONS

- 5 Members of the team have co-authored two recent publications by the Cardiothoracic Clinical Research Fellow, Gillian Hardman:

The impact of the SARS-CoV-2 pandemic and COVID-19 on Lung Transplantation in the UK: lessons learned from the first wave. Hardman G, Sutcliffe R, Hogg R, Mumford L, Grocott L, Mead-Regan SJ, Nuttall J, Dunn S, Seeley P, Clark S, Quigley R, Al-Attar N, Booth K, Dark JH, Fisher AJ, NHS Blood and Transplant Cardiothoracic Advisory Group Clinical Audit Group, Clinical transplantation Dec 2020

Heart transplantation in the UK during the first wave of the SARS-CoV-2 pandemic. Hardman G, Sutcliffe R, Hogg R, Mumford L, Grocott L, Jerrett L, Mead-Regan SJ, Nuttall J, Dunn S, Seeley P, Quigley R, Dalzell JR, Al-Attar N, Parameshwar J, Fisher AJ, Booth K, Dark JH, Clinical transplantation Feb 2021

RECENT AND FUTURE WORK

- 6 Work has continued, in collaboration with the Winton Centre for Risk Communication, to develop a tool to support conversations between patients and clinicians at the time of listing with regards to the risks and benefits of transplantation. The lung and kidney models have been developed first and then the other organs are due to be developed shortly.
- 7 Work has progressed on the re-design of the UK VAD Database following recruitment of an IT developer in January 2021.
- 8 There have been two recent Applications for Data:

Validation of scores to predict mortality after heart transplantation in a contemporary UK population, Malek Hassan and Stephen Pettit, Papworth

Effect of PGD on medium term outcome after heart transplant, John Dark, Newcastle
- 9 Fixed term projects and regular reports are listed in **Tables 1** and **2** below

	Title	Planned completion date	Current priority	S&CS resource reqd
1	Heart Allocation Support implementation of 6 Tier Heart Allocation Scheme Modelling of factors affecting waiting time	On-hold Autumn 2021	* **	*** ***
2	Lung Allocation Impact for Super-Urgent and Urgent Lung Allocation Scheme publication	On-hold	*	**
3	DCD Heart Programme Support Joint Innovation Fund UK wide DCD heart pilot	Unknown	***	**
4	Implementation of new data collection Grading of retrieved organs Ischaemia time and perfusion techniques Decline reasons Update Transplant Record form and Follow-up	Unknown Spring 2021 Unknown Unknown	** ** ** **	** ** ** **
5	Organ utilisation projects Supporting work of Cardiothoracic Clinical Research Fellow and Clinical Leads for Utilisation	2022	**	**
6	VAD Database restructure	Winter 2021	***	***
7	Review of outcomes of urgent heart transplantation in patients with LVAD-related complications	Summer 2021	**	**
8	Age related outcomes in heart and lung transplantation	Spring 2021	***	***
9	Analysis of impact of ischaemia time on lung transplant outcomes	Spring 2021	*	*
10	Review of cardiothoracic risk models	Autumn 2021	**	**
11	VAD risk-adjustment for Annual MCS report	On-hold	*	***
12	Update of ISHLT data extract	Autumn 2021	**	*

Table 2 Regular Reports

	Title	Frequency	Current priority	Time taken
1	Summary of CUSUM signals for CTAG	Biannually	**	< 2 hours
2	Cardiothoracic multi-organ transplant outcomes for CTAG	Biannually	**	Half day
3	Zonal activity review and adjustment of zonal boundaries if required for CTAG	Annually	**	One week
4	Adjudication panel review of cases for CTAG Heart and CTAG Lung	Biannually	**	Two days
5	DCD Heart activity report	Quarterly	**	One day
6	Report on urgent heart patients waiting over 1 year	Monthly	***	Half day
7	<i>Audit of ischaemia time components</i>	<i>Annually (once data collection process is in place)</i>	*	<i>One day</i>
8	Annual Report on Cardiothoracic Transplantation	Annually	***	Two weeks
9	Interim Report on Cardiothoracic Transplantation	Annually	***	One week
10	Annual Report on Mechanical Circulatory Support Related to Heart Transplantation	Annually	***	Two weeks
11	Monthly reporting of transplant and VAD numbers to NHS England	Monthly	***	Half day
12	Centre specific organ offer reports	Monthly and Quarterly	**	Half day
13	CUSUM reports to centres	Monthly	***	Half day
14	Organ damage and usage reports to NORS teams	Monthly	**	<2 hours
15	Data submission to METHODS for cardiothoracic transplant dashboard for NHS England	Annually	**	One day
16	VAD data chasing reports	Monthly/quarterly	**	<2 hours