

NHS BLOOD AND TRANSPLANT

CARDIOTHORACIC ADVISORY GROUP

SUMMARY FROM STATISTICS AND CLINICAL RESEARCH

INTRODUCTION

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

UPDATE FROM STATISTICS AND CLINICAL RESEARCH

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.
3. Following the end of the financial year, annual reports will be produced in the coming months. These will report an exceptionally high number of heart transplants during 2023/2024 (237). Lung transplant numbers continue to increase slowly since the pandemic (135).
4. The risk communication tools on the ODT Clinical Site are being updated. The tools are accessible from <https://www.odt.nhs.uk/transplantation/tools-policies-and-guidance/risk-communication-tools/> and are designed to support conversations between patients and clinicians at the time of listing about the risks and benefits of transplantation.
5. Please note our current arrangements for staff responsibilities in support of organs and tissues.

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PRESENTATIONS

6. A presentation was given at the annual British Transplantation Society (BTS) congress on DCD Heart Activity and Outcomes.
7. NHSBT clinical fellow Luke Williams, gave a presentation on direct procurement of lungs with ongoing abdominal normothermic regional perfusion from controlled DCD donors at the BTS congress and the Society for Cardiothoracic Surgery Annual Meeting.

PUBLICATIONS

8. A study entitled, *Early Experience of a New National Lung Allocation Scheme in the UK Based on Clinical Urgency*, was published online in Thorax in February 2024, leading to coverage by the BBC and other news sites.
9. A study entitled, *From 6-wk Lungs to 6 y: Increasing the Donor Pool for Pediatric Lung Transplantation*, with co-authorship from the Statistics Team, was published in Transplantation in January 2024.

APPLICATIONS FOR DATA

10. There have been three recent applications for national registry data:

Centre	Applicant	Application date	Study title	Status
Papworth	Kaiwen Wang	19/10/2023	Validation of scores to predict mortality after heart transplantation in a contemporary UK population	Complete
Papworth	Rushmi Purmessur	19/02/2024	UK experience of DCD heart transplantation	Complete
Newcastle	Nicholas Chilvers	11/03/2024	The impact of time from withdrawal of treatment to asystole and ischaemic times on recipient outcomes after DCD heart and lung transplantation	In progress

RECENT AND FUTURE WORK

11. The new MCS Database (previous the VAD Database) was launched in January 2024, after many years of requirement gathering, IT development and testing. The new database offers improvements both in terms of data collected and user experience. Please report any specific feedback to lewis.simmonds@nhsbt.nhs.uk.
12. In the last 6-12 months we have provided data to support the DCD Heart Allocation Group. We also continue to support the DCD Heart Oversight Group with regular monitoring reports. We are currently working with ODT Information Services to handover data collection for the DCD Heart Passport which has been undertaken by the Statistics Team for many years.
13. The survival from listing analysis in the annual reports on heart and lung transplantation is undergoing a review. The changes are being presented at the CTAG Heart and Lung meetings and implemented in the 2023/2024 reports.
14. We continue to work with the CTAG Lung Allocation Working Group (LAWG) and researchers at Newcastle University to design a future patient-based non-urgent lung allocation system.

15. Changes are being developed to the HTA-B form in TransplantPath to collect information on 10 degree fridge preservation for lungs (see Appendix).

Sally Rushton
Statistics and Clinical Research

May 2024

Appendix – proposed 10 degree fridge data collection to be added to TransplantPath

If either Lung Pair or Single right/left Lung selected as Organ type, then the following questions are generated in the HTAB form:

- 10 degree device preservation used – yes/no

If yes, below questions are required:

- Which lungs in device - left only, right only, pair
- Type of preservation – MORES, Fridge or Other
- If Other please specify
- Time placed in device – date/time field
- Time left lung removed from preservation – date/time field
- Time right lung removed from preservation – date/time field