

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. An infographic summary of the key activities of the Statistics Team during 2024/2025 is shown in the **Appendix**.
4. Since the last CTAG-Heart meeting, the 2024/2025 Annual Report on Heart Transplantation and the 2024/2025 Annual Report on Lung Transplantation have been published on the ODT Clinical Site <https://www.odt.nhs.uk/statistics-and-reports/>. The Annual Report on Mechanical Circulatory Support Related to Heart Transplantation is in production.
5. Please note our current arrangements for staff responsibilities in support of organs and tissues.

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	Jenny Mehew	jennifer.mehew@nhsbt.nhs.uk
Enquiries		statistical.enquiries@nhsbt.nhs.uk
Deceased kidney transplantation	Chloe Brown	chloe.brown@nhsbt.nhs.uk
Living kidney transplantation	Matthew Robb	matthew.robb@nhsbt.nhs.uk
Pancreas transplantation	Claire Counter	claire.counter@nhsbt.nhs.uk
Liver, multi-visceral and composite tissue transplantation	Rhiannon Taylor	rhiannon.taylor@nhsbt.nhs.uk
Cardiothoracic transplantation	Sally Rushton	sally.rushton@nhsbt.nhs.uk

PRESENTATIONS

6. There are no recent presentations of note.

PUBLICATIONS

7. One study has recently been submitted for publication to a medical journal and another study is nearing submission:
 - Heart-lung Transplantation in the United Kingdom: Trends and Outcomes over four decades
 - The United Kingdom National Programme of DCD Heart Transplantation: A Focus on Retrieval Timings and Techniques
8. A recently published study led by the NHSBT Clinical Research Fellow Luke Williams entitled "The United Kingdom's experience of controlled donation after circulatory death direct procurement of lungs with concomitant abdominal normothermic regional perfusion with an analysis of short-term outcomes" was featured in the Journal of Heart and Lung Transplantation Podcast <https://www.ishlt.org/about/news-detail/2025/08/20/dcd-lung-procurement-in-the-uk-on-ihlt-the-podcast>.

APPLICATIONS FOR DATA

9. There have been no new applications for national registry data but there is one previous application on hold:

Centre	Applicant	Application date	Study title	Status
Newcastle	Nicholas Chilvers	10/02/2024	The impact of time from withdrawal of treatment to asystole and ischaemic times on recipient outcomes after DCD heart and lung transplantation	On hold

RECENT AND FUTURE WORK

10. Detailed modelling of waiting list survival and post-transplant survival for lung transplant candidates has been performed to inform the development of a patient-based non-urgent lung offering scheme, which will replace the current zonal system. The models are currently being finalised, in collaboration with members of CTAG-Lung and Newcastle University. The next step will be to simulate a number of proposals and engage again with the wider group of stakeholders.
11. Data analysis has been performed to inform the Super-Urgent Heart Allocation Working Group and Paediatric Allocation Working Group. For the latter, we intend to model the anticipated impact of the potential offering sequence changes that have been proposed to increase access to donor hearts for paediatric patients.
12. Updates to the cardiothoracic CUSUM monitoring reports were implemented in July. The baseline periods have been updated and re-transplants are now included in the heart CUSUM charts.

13. In June, we provided a national dataset of patients listed for heart or lung transplantation, their outcomes, and post-transplant data if applicable, to support the work of the Heart and Lung Transformation Programme. Separately, we are supporting the programme with additional analyses of organ offer data to examine differences across centres in offer decline rates.
14. We continue to provide support for the DCD Heart Oversight Group and related subgroups, including providing data for the Paediatric Heart Business Case.
15. Work is underway on sharing non-identifiable data with the International Registry for Mechanically Assisted Circulatory Support (IMACS). This includes adult patients who received a durable LVAD as reported to the UK MCS Registry.
16. Finally, across all organ areas, lead Statisticians are supporting a large IT transformation project which will digitise the organ offering process thus significantly reducing the amount of manual data input required from Hub Operations. One of the key results will be that centres will be responsible for entering their response to offers and decline reasons, in real time. The project will also facilitate changes to the offering process due to the SCORE programme. Statisticians are providing expert advice on the data and organ offering processes. The improvements will enable more meaningful analyses, particularly in the area of organ utilisation.

Sally Rushton
Statistics and Clinical Research

September 2025

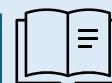
Appendix – Statistics Team 2024/25 Annual Summary

Statistics Team - 2024/25 Annual Summary



We are experts in statistical analysis and deliver objective evidence to monitor and improve the equity and quality of care provided to our donors and patients

KEY HIGHLIGHTS

 13 Annual Reports Published	 1st Report on Organ Utilisation (OU)	 CUSUM New Monitoring of Organ Retrieval	 22 Journal Publications
 19 Clinical Trials Supported	 4.6M Income - 3 New Research Grants	 1 National Comparative Audit	 Speakers at many conferences BTS, ESOT, ISHLT, Bowman, BASL, ...

IMPACT

Provided evidence to secure Normothermic Regional Perfusion funding

Developed NHSBT Total Blood Volume calculator for stem cell collections

1356 participants recruited into our clinical trials

Analysis to underpin the Sustainability and Certainty in Organ Retrieval (SCORE) programme

PUBLICATIONS INCLUDE



LOOKING AHEAD



Liver and Lung Offering Scheme updates



Expanding Power-BI suite and sharing Transplant Trust Reports on OU



Advancing AI capabilities and adoption

Contact us: Statistical.enquiries@nhsbt.nhs.uk

Website: <https://www.odt.nhs.uk/statistics-and-reports/>