



**ODT HUB**



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# HUB OPERATIONS



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## **WHO ARE HUB OPERATIONS?**

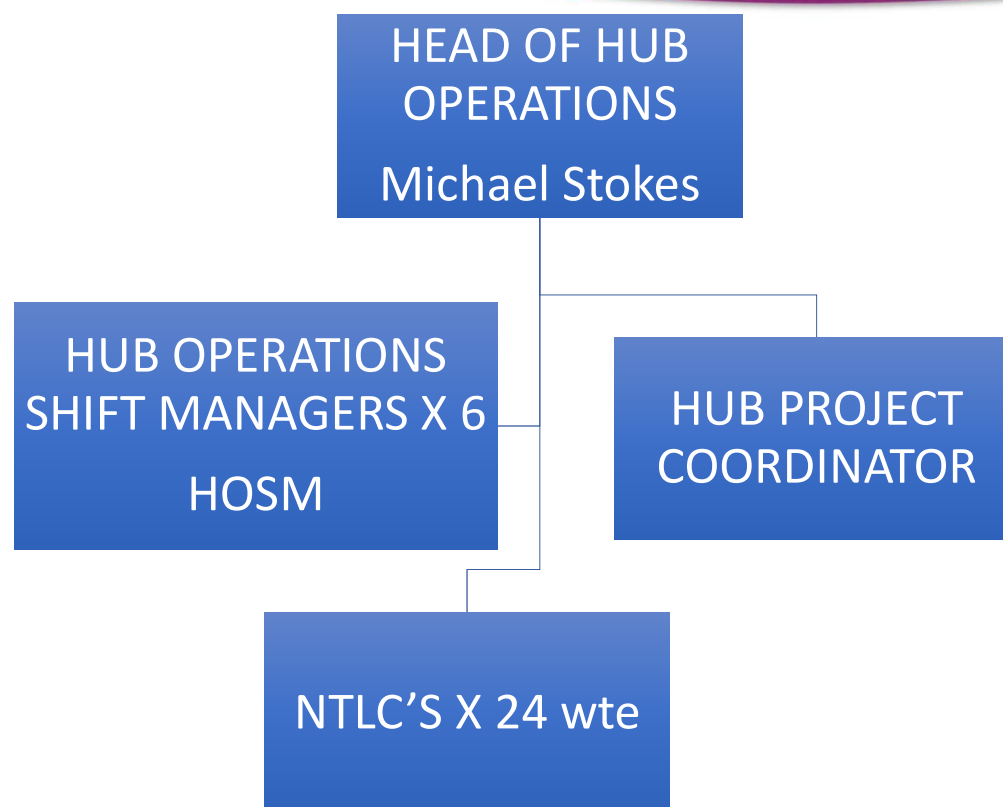




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- **24 Hours Day 365 Days Per Year**
- **12 Hourly shifts (plus handover)**
- **4 Teams – 6 NTLC's plus 1 HOSM**
- **Shift Pattern – 2 Days (07.00 – 19.30) & 2 Nights (19.00 – 07.30) followed by 4 days off.**
- **Maintain a Minimum staffing level of 4 at all times**

# What It is we do?





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- Perform Organ Donor Register (ODR) checks for potential organ and tissue donors.
- Man the Donor Referral Line, taking details of potential donors and alerting the SNOD
- Match and Allocate organs in accordance with specified organ allocation schemes. (Includes deceased, altruistic, UK and international.)
- Hub Operations now undertake all the offering of organs.
- Record the details and results of all offers made.
- Allocate & mobilise NORS teams as per agreed principles.
- Pithia
- Arrange transportation for samples (e.g. blood, tissues, etc) and organs to laboratories and transplant centres
- Manage (super) urgent waiting lists for the heart, Lungs and liver.
- Allocate organs for research.
- Perform initial follow-up and record organ outcomes.
- Disseminate clinical information during and post donation.
- Monitor building access and security systems out of hours.



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## **HOW WE DO IT**

### **Organ Donor Register Checks**

Hub Operations receive requests for organ donor register checks by telephone from a number of people including SN-ODs, Tissue Co-ordinators, National Referral Centre and ITU staff.

We now contact the SNOD team and tissue services in Scotland whenever we do an ODR check to enable them to follow up with the caller to ensure no potential donations are missed

## Organ Donor Referral Line



Referral sent to Snod.





## Donor Notification

Donor details are compiled electronically by SNODs using DonorPath who then register their donor with the Hub Operations to commence offering.

We confirm donor details (PID) and which organs the SNOD has consented for before generating the required matching runs

## Organ Allocation

Each organ type has its own allocation process. All allocation processes are designed and regularly reviewed by the organ specific advisory groups which are made up of medical representation from all UK transplant units and representatives from ODT.

The rules of organ allocation schemes are set down in the allocation policies which are available publicly on the ODT website

Hub Operations SOP's describe the processes by which we implement the national policies

## LIVER ALLOCATION

DBD	DCD
Super Urgent Liver Patients	Local Liver Centre for any Patient
Hepatoblastoma Patients **	Link Liver Centre for any Patient
Liver & Intestinal Patients	Fast Tracked
Elective CLD/HCC or Elective VS Patients	

\*\* Hepatoblastoma patients are patients who require a liver transplant between sessions of chemotherapy.

## **BOWEL ALLOCATION**

### **Outline of bowel offering**

- Offering is to named patients.
- Matching run contains patients from all centres nationally
- .
- Listed for wide combination of possible organs including pancreas, liver, kidney, stomach, spleen, colon, abdominal wall.
- Requirement for each patient is identified on Matching Run



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# **DBD LIVER & INTERSTINAL MATCHING RUN BLOOD GROUP 0-**

#### Fast Track Centre Ranking

Tx Centre	Paed or small adult registered	Centre rank
F0708 - ROYAL FREE	NO	267
G1401 - KINGS	YES	268
SS226 - EDINBURGH RI	NO	269
B6313 - LEEDS	YES	270
M1202 - BIRMINGHAM	YES	271
D0101 - CAMBRIDGE	NO	272

isbt-nhsbpm.bpm.ibmcloud.com/bpm/test/teamworks/executecf?modelID=1.2df37d3d-2a9d-4e08-8a93-6f95b06ce1d5&snapshotID=2064.90f365d9-885d-4225-bfaa-f29b7ec4c5b7&tw.local.donorNumber=... 21

18

130503 Liver and Intestinal Matching Run: DBD Adult

Tx Centre	Paed or small adult registered	Centre rank
A1313 - NEWCASTLE	NO	273
Y0007 - DUBLIN ST VINCENTS		274
Z0201 - EUROTRANSPLANT		275

A centre can only accept a liver for a Group 2 patient if the organ is declined by all centres in the UK for Group 1 patients.

## **CARDIOTHORACIC ALLOCATION**

### **Outline of cardiothoracic organ offering**

:

1. Super-urgent/Urgent Heart and Lung Patients
2. Simultaneous Group offer to all centres \*
3. Acceptance of Heart and/or Lungs will be allocated as per matching run sequence.

\*Each transplant unit in the UK is assigned a zone within the country and will receive offers from the hospitals within this zone before other units within the UK. Zones are set to try to accurately reflect the number of recipients and donors within each zone. These are reviewed annually by the organ specific advisory groups.



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# **DBD HEART MATCHING RUN BLOOD GROUP B+**



**Adult Heart Units, Non-Zonal**

<b>Tx Centre</b>	<b>Pos</b>
SG107 - GLASGOW GJNH	3
M1202 - BIRMINGHAM	4
P1202 - MAN WYTHENSHAW	5
D0921 - PAPWORTH	6
A1313 - NEWCASTLE	7

**Mainland European and other heart transplant organisations**

<b>Tx Centre</b>	<b>Pos</b>
Y0012 - DUBLIN MATER	8
Z0201 - EUROTRANSPLANT	9

## KIDNEY, PANCREAS & PANCREAS ISLET ALLOCATION

### Outline of Kidney & Pancreas offering

- Offering is to named patients
- Matching run contains patients from all centres nationally.
- Listed for Kidney, Pancreas, Simultaneous pancreas and Kidney (SPK), Islets, or Simultaneous islets and Kidney.

The national matching run provides a list of all patients these organs would be suitable for, the order in which they should be offered and the name of the patient they are offered for. A patient's position on the matching run is based on the points score that patient achieves. Points are allocated for a number of factors including tissue type match and time on waiting list.



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# **DBD KIDNEY AND KIDNEY/PANCREAS MATCHING RUN BLOOD GROUP B+**



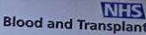
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**HOW ARE WE ABLE TO KEEP TRACK ON ALL THE  
OFFERING WE DO?**

Donor Progress List - 17/11/2018 23:47



136709	DBD	-	HLA	DUBLIN, ST JAMES'S			THEATRE:	-
CT TEAM:			AB TEAM:	TRANSPORT:			KTS:	-
HEART	LUNGS		BOWEL	PANCREAS	KIDNEY	KIDNEY	X-CLAMP:	-

136704	DCD	-	HLA				THEATRE:	-
CT TEAM:			AB TEAM:	TRANSPORT:			KTS:	-
HEART	LUNGS	LIVER	BOWEL	PANCREAS	KIDNEY	KIDNEY	X-CLAMP:	-

136702	DBD	-	HLA	LONDON, KINGS			THEATRE:	-
CT TEAM:			AB TEAM:	TRANSPORT:			KTS:	-
HEART	LUNGS	LIVER	BOWEL	PANCREAS	KIDNEY	KIDNEY	X-CLAMP:	-

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## **NORS TEAMS AND MOBILISATION**

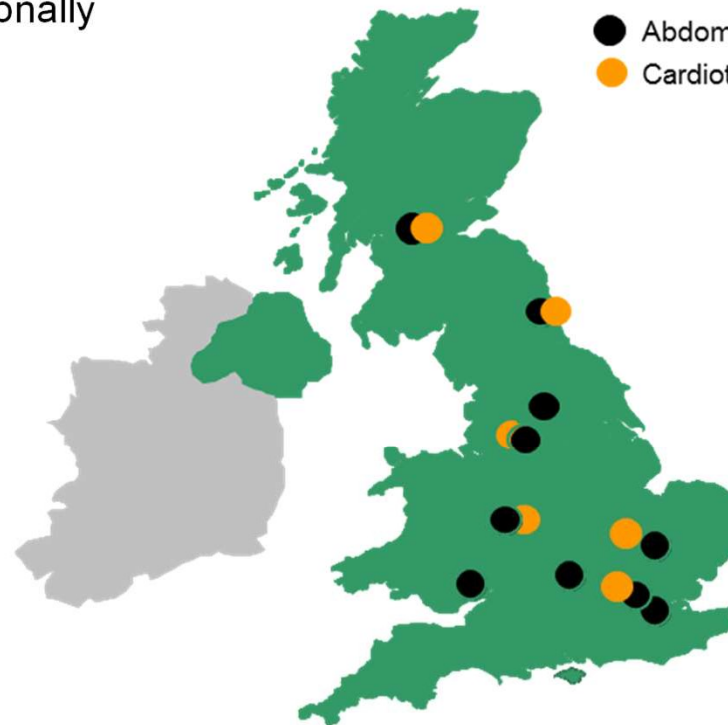


# National Organ Retrieval Service

- The NORS review recommended that from April 2016:
  - 7 abdominal teams on call at any time would meet demand
  - 3 cardiothoracic teams should be on call at any time, reduced from 6
  - Teams would attend donors according to closest team first, rather than zonally

10 Abdominal teams:  
(7 on call at any time)

Birmingham OR Cardiff  
Cambridge  
King's College  
Leeds OR Manchester  
Newcastle  
Oxford OR Royal Free  
Edinburgh



● Abdominal retrieval team  
● Cardiothoracic organ retrieval team

6 Cardiothoracic teams:  
(3 on call at any time)

Birmingham      Manchester  
Harefield      OR      Papworth  
Newcastle      Glasgow



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## NORS CALCULATOR

1	<b>H</b>	HALIFAX, CALDERDALE ROYAL HOSPITAL					Get live travel times		
2									
3	Rank	Travel time (no traffic)	Live travel time (incl. traffic)	Extra time in traffic	Abdominal Teams	Team Notes	Status	Expected availability	Donor ID
4	1	0h 35m			Leeds - R8041		Off Duty		
5	2	0h 45m			Manchester - R7042		Available		
6	3	2h 09m			Birmingham - R3037		Off Duty		
7	4	2h 10m			Newcastle - R5035		Available		
8	5	3h 06m			Cambridge - R8032		Available		
9	6	3h 09m			Oxford - R1039		Off Duty		
10	7	3h 26m			Royal Free - R9040		Available		
11	8	3h 32m			Cardiff - R2038		Available		
12	9	3h 47m			King's College - R7033		Available		
13	10	3h 55m			Scotland - R6043		Available		
14									
15	Rank	Travel time (no traffic)	Live travel time (incl. traffic)	Extra time in traffic	Cardiothoracic Teams		Status	Expected availability	Donor ID
16	1	0h 49m			Manchester (Scout) - R7013		Off Duty		

## TRANSPORTATION

In conjunction with Amvale we arrange transport of organs when requested ensuring that all relevant time constraints are taken into consideration

This could be by road or air.

Hub Operations has the capacity to authorise flights costing more than £10,000.





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**RESEARCH**

## Research Projects

Organ type	Study No	Title	Ranking	Location	Contact 1	Contact Number	Transplantable	DNA	Animal
HEART	<a href="#"><u>67</u></a>	Structural and functional analysis of intact myocardium and isolated cells from explanted hearts	1	Imperial	Rasheda Chowdhury	07747 865021		NO	NO
LUNG	<a href="#"><u>58</u></a>	ENLIGHTEN - Multiplexed Optical Molecular Imaging and Sensing during Ex Vivo Lung Perfusion (EVLV)	1	Edinburgh	Irene Young	07928 287235		NO	NO
	<a href="#"><u>66</u></a>	Further Evaluation of Ex Vivo Lung Perfusion to Improve Transplantation Outcomes	2	Newcastle	Catriona Charlton	07951 444423		NO	NO
LIVER	<a href="#"><u>21</u></a>	Development of pre-transplant normothermic perfusion reconditioning for human livers donated after circulatory death	1	Cambridge	Prof Chris Watson	07515 336053	YES	NO	NO
	<a href="#"><u>35</u></a>	Normothermic Liver Perfusion Study (The development of NMLP for improvement of marginal human donor liver quality)	2	Birmingham	Liver RTC's	Pageone/ 07498355081		NO	NO
	<a href="#"><u>56</u></a>	Human Hepatic Progenitor Cells as a Source of Liver Regeneration	3	Edinburgh	Hannah Esser	07535 899430		56: NO 65: NO	56: YES 65: YES
	<a href="#"><u>33</u></a>	Expression and Function of Immune Regulatory Proteins in Human Liver	4	Birmingham	Liver RTC's	Pageone/ 07623 910 379		YES	NO
	<a href="#"><u>52</u></a>	Establishing ex-vivo normothermic and hypothermic perfusion of livers for transplantation	5	Newcastle	Rodrigo Figueiredo	07795 055747		NO	NO
	<a href="#"><u>50</u></a>	Organ regeneration and disease modelling using 3D biological scaffold	5	Royal Free	Liver RTC's	Pageone		NO	YES
	<a href="#"><u>68</u></a>	Hepatocyte Transplantation Project: Studies on isolated hepatocytes	6	King's	Emer Fitzpatrick	07920 288141		YES	YES



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## **PATIENT REGISTRATIONS**

**Hub Operations are responsible for the registration of the following patients:**

- **Super-urgent Liver**
- **Super-urgent Heart**
- **Urgent Heart**
- **Super Urgent Lung.**
- **Urgent Lung.**

All other registrations are made electronically and will be confirmed by Information Services

## TRANSPLANT OUTCOME FOLLOW UP

Within 72 hours of a centre accepting an organ for transplant, Hub Operations will contact them to confirm the details of the patient who received the organ and the transplant date.

Hub Operations will then remove that patient from the national waiting list



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## OFFERING STATS

JAN – MARCH 2018

• KIDNEYS	3104
• CARDIAC BLOCK	302
• HEART	656
• LUNGS	955
• LIVER	1695
• PANCREAS	1197
• ISLETS	264
• SMALL BOWEL	196
• TOTAL OFFERS	8369







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## CALL STATS

JAN – MARCH 2018

INBOUND CALLS	31789
OUTBOUND CALLS	21905
TOTAL CALLS	53664









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**ANY QUESTIONS**



