



ODT HUB



Blood and Transplant

ODT HUB OPERATIONS

Donna Winder

Training & Development Lead



ODT HUB



Blood and Transplant

WHO AND WHAT IS HUB OPERATIONS?

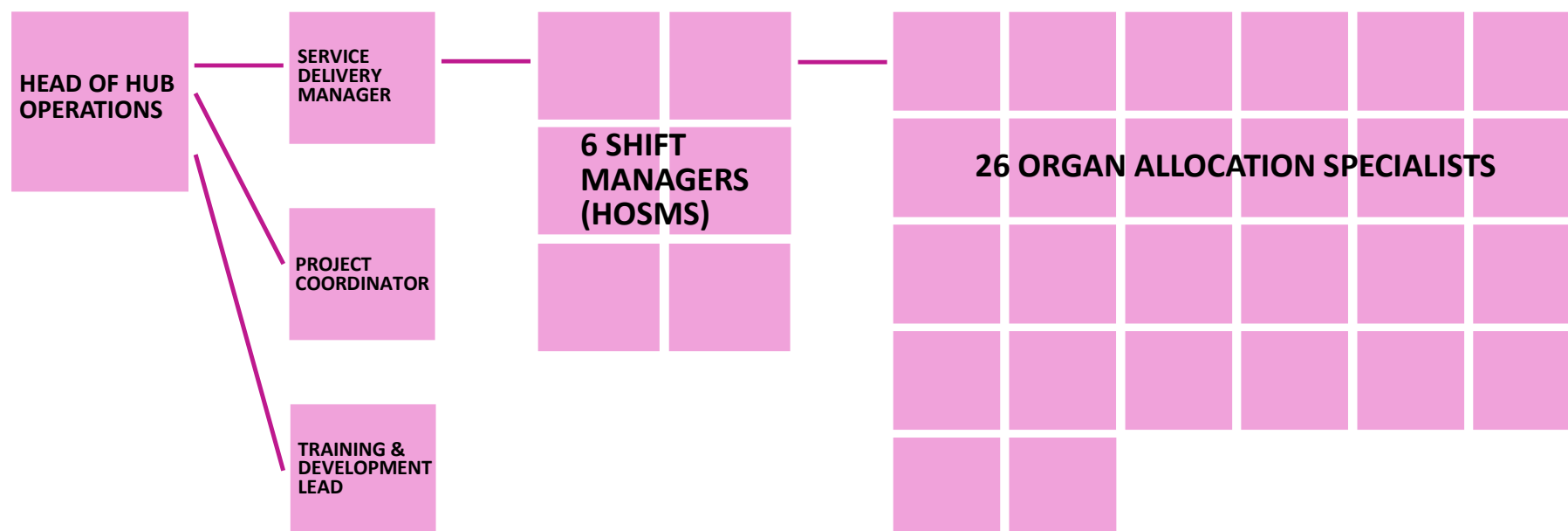




Blood and Transplant

ODT HUB

ODT HUB OPERATIONS



ODT HUB OPERATIONS

Based in Bristol

Operates 24 hours a day 365
days a year

ODT HUB OPERATIONS

Four teams

Seven Organ Allocation Specialists

Shift Manager

ODT HUB OPERATIONS

Minimum staffing level of four
12.5 hour shifts

ODT HUB OPERATIONS

Shift pattern - four on – four off
Two days – two nights



ODT HUB



Blood and Transplant

OD



NS



Blood and Transplant

ODT HUB





ODT HUB



Blood and Transplant

DONOR REFERRAL

**DONOR
REFERRAL**

Donor referral line

Potential donor details passed
to relevant SNOD team

**DONOR
REFERRAL**

Organ Donor Register (ODR)
Checks on potential organ and
tissue donors from SNODs and
Tissue Services only



ODT HUB



Blood and Transplant



ODT HUB



Blood and Transplant

SU/URGENT LISTS



ODT HUB



Blood and Transplant

**SU/URGENT
LISTS**

HUB Operations manage urgent
and super urgent waiting lists

SU/URGENT LISTS

Super urgent and urgent heart
Super urgent and urgent lungs
Super urgent liver



ODT HUB



Blood and Transplant

**SU/URGENT
LISTS**

Other registrations are made
electronically and will be confirmed
by Information Services



ODT HUB



Blood and Transplant

SNOD LIAISON



ODT HUB



Blood and Transplant

**SNOD
LIAISON**

Pre-registration calls

Scout ∞ Bowel consent

ODR checks ∞ Organ criteria checks

SNOD
LIAISON

Registration
Consent ∞ Authorisation
Research ∞ Restrictions

SNOD
LIAISON

Updates ∞ Histopathology
NORS allocation
Anatomy ∞ Follow up



ODT HUB



Blood and Transplant

NORS

National Organ Retrieval Service

NORS

Location & allocation of teams
Timings & mobilisation

NORS

Cardiothoracic

Six NORS teams

Three teams on at one time

NORS

Cardiothoracic

Harefield ∞ Manchester ∞ Scotland

Papworth ∞ Birmingham ∞ Newcastle

NORS

Abdominal

Ten NORS teams

Seven teams on at one time

NORS

Abdominal

Four NORS teams on at all times
King's ∞ Addenbrookes ∞ Edinburgh
∞ Newcastle

NORS

Abdominal

Birmingham ∞ Cardiff

Oxford ∞ Royal Free

Leeds ∞ Manchester

NORS

On mobilisation
One hour to rest between calls
One hour to re-stock
Two call-outs in 24-hour period



Blood and Transplant

ODT HUB

NORS

B	BELFAST, ROYAL VICTORIA HOSPITAL				Get live travel times			First 3 Available	< Get live travel times					
Rank	Travel time (no traffic)	Live travel time (incl. traffic)	Extra time in traffic	Abdominal Teams 1st: Edinburgh AB team 2nd: Newcastle AB team	Team Notes	Status	Expected availability	Donor ID	Hospital being attended	Planned Arrival Time	Planned theatre or W/D time	KTS time	Time left theatre	Donor Notes
1	2h 05m			Newcastle - R5035		Available								
2	2h 39m			Edinburgh - R6043		Booked	Unknown	142017 (DBD)	BELFAST, ROYAL VICTORIA HOSPITAL	Sun 12:30	Unknown	Unknown	Unknown	
3	3h 10m			Manchester - R7042		Off Duty								
4	3h 12m			Leeds - R8041		Available								
5	3h 15m			Birmingham - R3037		Off Duty								
6	3h 17m			Cardiff - R2038		Available								
7	3h 18m			Oxford - R1039		Off Duty								
8	3h 20m			King's College - R7033		Booked	Unknown	141978 (DCD)	LONDON, THE ROYAL LONDON HOSPITAL (WHITECHAPEL)	Sun 12:00	Unknown	Unknown	Unknown	
9	3h 30m			Royal Free - R9040		Booked	Sun 19:21 (3h 4m)	142016 (DBD)	CHICHESTER, ST RICHARD'S HOSPITAL	Sun 11:00	Unknown	Sun 12:25	Unknown	
10	4h 00m			Cambridge - R8032		Booked	Unknown	142015 (DBD)	GREAT YARMOUTH, THE JAMES PAGET HOSPITAL	Sun 10:00	Unknown	Unknown	Unknown	

Rank	Travel time (no traffic)	Live travel time (incl. traffic)	Extra time in traffic	CT Teams 1st: Glasgow CT team 2nd: Manchester CT team	Team Notes	Status	Expected availability	Donor ID	Hospital being attended	Planned Arrival Time	Planned theatre or W/D time	KTS time	Time left theatre	Donor Notes
1	2h 05m			Newcastle (Scout) (P) - R6014		Off Duty								
2	2h 39m			Glasgow (Scout) - R4016		Available								
3	3h 10m			Manchester (Scout) - R7013		Booked	Unknown	142015 (DBD)	GREAT YARMOUTH, THE JAMES PAGET HOSPITAL	Sun 10:00	Unknown	Unknown	Sun 12:53	
4	3h 15m			Birmingham - R9011		Off Duty								
5	3h 20m			Harefield (Scout) - R8012		Off Duty								
6	4h 00m			Papworth (Scout) (P) - R5015		Available								



ODT HUB



Blood and Transplant

ORGAN OFFERING



ODT HUB



Blood and Transplant

**ORGAN
OFFERING**

Offer all organs

EXCEPT

DCD Heart (changing soon)



ODT HUB



Blood and Transplant

**ORGAN
OFFERING**

Deceased donors
UK - international offers

ORGAN OFFERING

Allocation processes are designed and reviewed by the organ specific advisory groups.



ODT HUB



Blood and Transplant

ORGAN OFFERING

Groups made up of medical representation from all UK transplant units and representatives from ODT.

ORGAN OFFERING

Rules of the allocation schemes set down in these policies are available publicly on the ODT website



ODT HUB



Blood and Transplant

ORGAN OFFERING

SOPs explain the processes by which
we implement these national policies

**ORGAN
OFFERING**

HUB donation process

Matching runs

Every organ different

ORGAN OFFERING

Cardiothoracic allocation

Each transplant unit in the UK is assigned a zone and will receive offers from within this before other units within the UK.

ORGAN OFFERING

Cardiothoracic allocation

Zones try to reflect the number of recipients and donors within each zone. The organ specific advisory groups review these annually.

**ORGAN
OFFERING**

Cardiothoracic allocation

Super-urgent / Urgent
Heart and Lung Patients

**ORGAN
OFFERING**

Cardiothoracic allocation

Group offer to all centres

*Acceptance of Heart and/or Lungs allocated
as per matching run sequence.*

**ORGAN
OFFERING**

Cardiothoracic allocation

DBD fast track trigger points

*Within 90 minutes of X-clamp
Already removed or being removed*

**ORGAN
OFFERING**

Cardiothoracic allocation

DCD fast track trigger points

*Within 90 minutes of withdrawal of treatment
Already removed or being removed*



ODT HUB



Blood and Transplant

**ORGAN
OFFERING**

Liver allocation

DBD and DCD

**ORGAN
OFFERING**

Liver allocation

DBD offering

Super Urgent Liver patients

Hepatoblastoma patients

Liver and intestinal patients

Elective CLD/HCC or Elective VS Patients

**ORGAN
OFFERING**

Liver allocation

DCD offering

Local liver centre for any patient
Link liver centre for any patient
Fast track

ORGAN OFFERING

Liver allocation

DBD fast track trigger points

3 declines (donor related reasons) after intestinal offering

5 hours after offering starts

At KTS ∞ Accepted by S/Urgent then declined

**ORGAN
OFFERING**

Liver allocation

DCD fast track trigger points

Zone & link decline

Not accepted at time of withdrawal

**ORGAN
OFFERING**

Bowel allocation

DBD only

Offering for named patients
for all intestinal centres nationally

No fast tracking



ODT HUB



Blood and Transplant

**ORGAN
OFFERING**

Bowel allocation

Recipients listed for a wide combination of organs;
pancreas ∞ liver ∞ kidney ∞ stomach ∞ spleen ∞
colon ∞ abdominal wall ∞ fascia

**ORGAN
OFFERING**

Kidney / pancreas allocation

DBD & DCD

New offering scheme
rules same for DBD & DCD

ORGAN OFFERING

Kidney / pancreas allocation

DBD kidney fast track trigger points

Declined by 5 centres for donor/organ related reasons

6+ hours CIT (12 hours multi-organ)

Deemed unusable by SNOD/retrieval/transplant team

All named patients on MR offered

ORGAN OFFERING

Kidney/pancreas allocation

DCD kidney fast track trigger points

Declined by 3 centres for donor/organ related reasons

3+ hours CIT (6 hours multi-organ)

Declined after withdrawal but before KTS

Deemed unusable ∞ Named offers completed

**ORGAN
OFFERING**

Kidney/pancreas allocation

Pancreas fast track

Pancreas no longer fast tracked if cold
ischaemic time is greater than 8 hours

ORGAN OFFERING

Kidney/pancreas allocation

DBD pancreas fast track trigger points

Declined by 4 centres for donor/organ related reasons

Following KTS

Deemed unusable by SNOD/retrieval/transplant team

All named offers completed on Pancreas and Tier A Kidney

ORGAN OFFERING

Kidney/pancreas allocation

DCD pancreas fast track trigger points

Declined by 3 centres for donor/organ related reasons

Following KTS

Deemed unusable by SNOD/retrieval/transplant team

All named offers completed on Pancreas & Tier A Kidney

KEEPING TRACK OF OFFERING?

ORGAN OFFERING

Donor Progress List - 17/09/2019 06:41 > 1m ago

142048	DBD	-	HLA	KILMARNOCK, CROSSHOUSE	THEATRE:	
CT TEAM:	-	AB TEAM:	-	TRANSPORT:	-	KTS:
HEART	LUNGS	LIVER	BOWEL	PANCREAS	KIDNEY	KIDNEY
					X-CLAMP:	-
142047	DCD	-	HLA	BURY, FAIRFIELD GENERAL	THEATRE:	-
CT TEAM:	-	AB TEAM:	-	TRANSPORT:	-	KTS:
HEART	LUNGS	LIVER	BOWEL	PANCREAS	KIDNEY	KIDNEY
					X-CLAMP:	-
142046	DBD	-	HLA	MORRISTON	THEATRE:	-
CT TEAM:	-	AB TEAM:	-	TRANSPORT:	-	KTS:
HEART	LUNGS	LIVER	BOWEL	PANCREAS	KIDNEY	KIDNEY
					X-CLAMP:	-
142043	DBD	-	HLA	LONDON, ST GEORGE'S	THEATRE:	-
CT TEAM:	-	AB TEAM:	-	TRANSPORT:	-	KTS:
HEART	LUNGS	LIVER	BOWEL	PANCREAS	KIDNEY	KIDNEY
					X-CLAMP:	-
142042	DBD	-	HLA	LEICESTER ROYAL	THEATRE:	-
CT TEAM:	-	AB TEAM:	-	TRANSPORT:	-	KTS:
HEART	LUNGS	LIVER	BOWEL	PANCREAS	KIDNEY	KIDNEY
					X-CLAMP:	-
142024	DBD	-	HLA	LONDON, ST GEORGE'S	THEATRE:	17 Sep 03:30
CT TEAM:	HAREFIELD CT TEAM	AB TEAM:	KINGS AB TEAM	TRANSPORT:	Booking Pending	KTS:
HEART	LUNGS	LIVER	BOWEL	PANCREAS	KIDNEY	KIDNEY
					X-CLAMP:	-



ODT HUB



Blood and Transplant

**ORGAN
OFFERING**

**IF SYSTEMS FAIL THE HUB WOULD REVERT TO
MANUAL ALLOCATION ASSISTED BY VISUAL
MANAGEMENT AND BY APPLYING
SOP5139 ORDER OF OFFERING**



ODT HUB



Blood and Transplant

TRANSPORT



ODT HUB



Blood and Transplant

TRANSPORT

Main transport provider IMT



ODT HUB



Blood and Transplant

TRANSPORT



Transport by road or air
HUB authorises flights above
£10,000 for all organs



TRANSPORT

Move - kidneys / pancreas
cross match bloods / pithia



ODT HUB



Blood and Transplant

BLOODS PITHIA

**BLOODS
PITHIA**

HLA

Receive and input HLA from TT
Double entry for safety
Most offering now requires HLA

**BLOODS
PITHIA**

PITHIA

Request from centre

Advise SNOD confirming which kidney

On anatomy contact Biomedical Scientist

Organise transport if required



ODT HUB



Blood and Transplant

ANATOMY

ANATOMY

Anatomy call from SNOD
Accepting centres contacted
Confirmation call to SNOD ∞ Transport
Details onto system



ODT HUB



Blood and Transplant

HISTOLOGY PATHOLOGY

**HISTOLOGY
PATHOLOGY**

Verbal reports only taken by email –
REMEMBER – 3 points of PID
Verbal reports forwarded to all
accepting centres



ODT HUB



Blood and Transplant

**HISTOLOGY
PATHOLOGY**

If HUB receives the final report directly
it is forwarded to all accepting centres,
SNOD team, DRD and NRC



ODT HUB



Blood and Transplant

**HISTOLOGY
PATHOLOGY**

Receipt of report noted on NTXD
and copy saved to donor file



ODT HUB



Blood and Transplant

FOLLOW UP / RESEARCH



ODT HUB



Blood and Transplant

**FOLLOW UP /
RESEARCH**

Follow up taken for all organs;
Phone ∞ email ∞ HTA B



ODT HUB



Blood and Transplant

**FOLLOW UP /
RESEARCH**

Offer details checked,
recipient confirmed and
details updated on system

**FOLLOW UP /
RESEARCH**

Research offering

Paged offer to all study centres
- acceptance in ranked order

**FOLLOW UP /
RESEARCH**

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



ODT HUB



Blood and Transplant

**FOLLOW UP /
RESEARCH**

Research offering

Not accepted by organ study
- offered to tissue banks



ODT HUB



Blood and Transplant

STATISTICS



ODT HUB



Blood and Transplant



STATISTICS

JANUARY 2018 – MARCH 2018

CALL VOLUME – 90 DAYS

INBOUND CALLS	31,789
OUTBOUND CALLS	21,905
TOTAL CALLS	53,694



ODT HUB



Blood and Transplant



STATISTICS

JANUARY 2018 – MARCH 2018

CALL VOLUME – 90 DAYS

TOTAL CALLS

53,694

**AVERAGE DAILY
CALLS**

597

STATISTICS

JANUARY 2019 – JUNE 2019	
HEART	1385
LUNGS	2049
CARDIAC BLOCK	615
LIVER	3130
KIDNEYS	3990
PANCREAS	1793
ISLETS	437
SMALL BOWEL	124
TOTAL ORGANS OFFERED	13,523

STATISTICS

TOTAL DONORS 1 APRIL 2018 – 31 MARCH 2019

DBD Donors after
brain death

962

DCD Donors after
circulatory death

628

Total deceased donors

1590

Living donors

954

STATISTICS

**Active Transplant List
has 6044 patients waiting
for a solid organ transplant.**



ODT HUB



Blood and Transplant

**THANK YOU FOR LISTENING
ANY QUESTIONS?**