

Super-urgent/ Urgent Heart Recipient Registration

Directions for completion

- 1 This is a single copy, four-page form.
- 2 Please ensure all sections are completed in full.
- 3 **Do not use this form to register non-urgent cases** as all patients registered through this form will be registered as super-urgent or urgent. To register non-urgent heart patients use ODT Online or return a completed Heart/Lung Recipient Registration form (FRM4847) to ODT Hub: Information Services, NHS Blood and Transplant.
- 4 If completing by hand, please use BLOCK CAPITALS. When complete, please email all pages of this form to <u>odthub.operations@nhsbt.nhs.uk</u> and <u>odthuboperations.shiftmanagers@nhsbt.nhs.uk</u> and then call 0117 975 7580 to confirm that the information has been sent. The original should be retained for your files.
- 5 If using the electronic version of the form please open a blank form, complete details, then click "Make Read Only" before selecting the "Submit Form" button which will automatically generate an email to <u>odthub.operations@nhsbt.nhs.uk</u> and <u>odthuboperations.shiftmanagers@nhsbt.nhs.uk</u> with the form attached. Send the email, then call 0117 975 7580 to confirm that the information has been sent. Save the original form for your record.

HEART DISEASE

Primary disease

- 10 Coronary heart disease
- 13 Valvular heart disease
- 14 Congenital heart disease
- 41 Dilated cardiomyopathy idiopathic
- 42 Dilated cardiomyopathy familial
- 43 Dilated cardiomyopathy myocarditis 44 - Dilated cardiomyopathy - alcohol
- 44 Dilated cardiomyopathy accord
- 46 Dilated cardiomyopathy adriamycin
- 49 Dilated cardiomyopathy other, please specify
- 50 Hypertrophic cardiomyopathy
- 51 Restrictive cardiomyopathy
- 19 Other heart disease please specify

ETHNIC GROUP

Recipient ethnicity

White

10-White - Welsh/English/ Scottish/Northern Irish/British
11-White - Irish
12-White - Gypsy or Irish Traveller
18-White - any other White background
19-White - unknown

Asian/Asian British

20-Asian/Asian British - Indian 21-Asian/Asian British - Pakistani 22-Asian/Asian British - Bangladeshi 23-Asian/Asian British - Chinese 28-Asian/Asian British - any other Asian background 29-Asian/Asian British - Unknown

Black/African/Caribbean/Black British

30-Black/African/Caribbean/Black British - African
31-Black/African/Caribbean/Black British - Caribbean
38-Black/African/Caribbean/Black British - any other Black/African/Caribbean background
39-Black/African/Caribbean/Black British - Unknown

Retransplantation

- 31 Acute rejection
- 32 Coronary occlusive disease
- 35 Non-specific graft failure
- 38 Allograft vascular disease

General

98 - Other, please specify

99 - Unknown

Mixed/Multiple ethnic groups

60-Mixed/Multiple ethnic groups - White and Black Caribbean

61-Mixed/Multiple ethnic groups - White and Black African

62-Mixed/Multiple ethnic groups - White and Asian 68-Mixed/Multiple ethnic groups - any other Mixed/ Multiple ethnic background

Other ethnic groups

70-Other ethnic group - Arab78-Other ethnic group - any other ethnic group99-Unknown

INDICATION FOR SUPER-URGENT/URGENT HEART REGISTRATION

SUPER-URGENT PATIENTS

- 11 Category 11 Adult or Small Adult patient on temporary ventricular assist device (VAD) or veno-arterial extra-corporeal membrane oxygenation (VA-ECMO) support.
- 12 Category 12 Agreed by CTAG (Heart) Adjudication Panel and evidence of agreement emailed to NHSBT, and either:a) on intra-aortic balloon pump (IABP)

b) at imminent risk of dying or irreversible complications. Meets criteria for urgent listing but is not suitable for longterm VAD and/or other exceptional circumstances

c) Paediatric patient on VA-ECMO where agreed by other paediatric transplant centre and the CTAG Chair or deputy.

URGENT ADULT PATIENTS

21 - Category 21 - Adult inpatient with advanced heart failure requiring continuous inotrope therapy and/or IABP support **AND** with a cardiac index of <2.0L/min/m2 **AND** at least one of the following sub-categories:

- a) cardiogenic shock: blood lactate >2.0mmol/L AND clinical evidence of hypoperfusion
- b) cardiorenal or hepatic indication: eGFR <40ml/min/1.73m² AND/OR bilirubin >2x upper limit of normal (40µmol/L)
- c) adverse pulmonary haemodynamics: transpulmonary gradient (TPG) >12mmHg AND/OR pulmonary vascular resistance (PVR) >4WU at baseline, despite conventional medical therapy, leading to the use of inotropes and resulting in improvement in TPG and PVR, in patients where durable LVAD therapy is not preferred.

22 - Category 22 - Adult long-term VAD or total artificial heart (TAH) patient, agreed by CTAG (Heart) Adjudication Panel and evidence of agreement emailed to NHSBT, with one of the following complications:

- a) right ventricular failure dependent on inotropes
- b) recurrent systemic infection related to VAD/TAH
- c) other VAD/TAH issues including recurrent or refractory VAD/TAH thrombosis.
- 23 Category 23 Exceptionally sick adult patient high risk of dying or having an irreversible complication but does not meet urgent listing criteria. Agreed by CTAG (Heart) Adjudication Panel and evidence of agreement emailed to NHSBT.

31 - Category 31 - Adult congenital heart disease (ACHD) arrhythmia patients - Refractory arrhythmia (>1 hospital admission over last 3 months with haemodynamic instability or associated with kidney or liver dysfunction).

- 32 Category 32 ACHD patients with no option for conventional escalation of therapy Inpatients unsuitable for inotropes and/or VAD with one of the following:
 - a) bilirubin and transaminases >2x normal
 - b) deteriorating renal function (eGFR <50ml/min/1.73m², or 20% reduction from baseline)
 - c) requirement for dialysis/CVVH for fluid or electrolyte management
 - d) recurrent admissions (>3 in preceding 3 months) with episodes of right heart failure or protein losing enteropathy requiring ascites drainage.

URGENT PAEDIATRIC PATIENTS

For any urgent listing there must be agreement between the two paediatric centres. This should involve the clinical leads or in their absence an appointed deputy. If there is disagreement this should be noted at the time of discussion with the chair of CTAG.

- 51 Category 51 Paediatric with short-term mechanical circulatory support device (MCSD): Mechanical circulatory support for acute haemodynamic decompensation using a short-term right, left or bi-ventricular device (including Berlin Heart), implanted as a specific bridge-to-transplantation. VA-ECMO not included; these patients qualify for super-urgent listing under Category 11.
- 52 Category 52 Paediatric with MCSD with device-related complications: Mechanical circulatory support with objective medical evidence of significant device-related complications such as thrombo-embolism, device infection, mechanical failure and/or life-threatening ventricular arrhythmias. Panel reactive antibody sensitisation does not qualify for urgent registration in this criterion.
- 54 Category 54 Paediatric with VA-ECMO: Mechanical circulatory support using extra-corporeal membrane oxygenation as a specific bridge-to-transplantation (not approved for super-urgent listing).
- 55 Category 55 Paediatric >15kg on high-dose inotropes: Patients >15kg on continuous central infusion of a high dose intravenous inotrope.
- 56 Category 56 Paediatric ≤15kg on ventilation and inotropes: Patients ≤15kg who are ventilated and on inotropes.
- 59 Category 59 Paediatric, Other: Paediatric patients outside the criteria listed above, but for whom the patient's transplant physicians believe urgent listing is justified using acceptable medical criteria not included above. Approval for listing under this category is as follows:
 - a) For paediatric patients whereby a maximum acceptable donor size has been specified to be <160 cm in height and <60kg in weight, their eligibility for registering under this category must be discussed and agreed by the other paediatric transplant centre and the CTAG Chair or deputy and evidence of agreement emailed to NHSBT.
 - b) For paediatric patients whereby a maximum acceptable donor size has been specified to be ≥160 cm in height or ≥60kg in weight, their eligibility for registering under this category must be discussed and agreed by the other paediatric transplant centre and the CTAG (Heart) Adjudication panel via the Chair or deputy and evidence of agreement emailed to NHSBT.

UK TRANSPLANT REGISTRY

NHS Blood and Transplant

Your centre code should be quoted on all pages

Super-urgent/Urgent Heart Recipient Registration
Section 1
We have a SUPER-URGENT/URGENT Heart Recipient to register with you
Urgent = UNo = 1Which scheme do you wish to register this recipient on? $Super-urgent = S$ Does this recipient also require lungs? $No = 1$ Yes = 2
The following patients require approval from the CTAG Adjudication Panel in order for the registration to be processed: • Urgent heart-lung registrations • Urgent category 12 registrations under category 22 or 23 • Urgent paediatric registrations under category 59 • Small adult registrations weighing 30-40kg • Urgent or super-urgent re-transplant registrations • Urgent or super-urgent re-transplant regist
RECIPIENT DETAILS Section 2
Centre Transplant ODT Recipient number code Image: Centre (NHSBT to complete)
Date of birth Male = 1 Sex Male = 1 Blood group including, where known, subtypes of A ABO Neg = N Neg = N Unknown = U Neg = N Patients with acute uncontrolled sepsis
VIROLOGY Negative = 1 CMV (IgG) status HCV status HIV status Positive = 2 Not tested = 7 Unknown = 9 HbSAg status If HbSAg positive, HbCAb Negative = 1 Positive = 2 Other virus status If other virus, please specify If other virus, please specify If other virus, please specify
REGISTRATION DETAILS Section 3
Has this patient received any previous heart transplants? $No = 1$ Yes = 2 Unknown = 9 Specify donor ABO criteria $Compatible = 2$ Any = 3 Specification of 'Any' donor ABO (code 3) is only permitted for paediatric patients registered at paediatric transplant centres and may result in offers of hearts from incompatible blood group donors.
Code the recipient's primary disease or reason for retransplantation (See codes inside cover)
Is this a congenital disease? No = 1 Yes = 2
Recipient Donor minimum Donor maximum
Height cm cm For all patients, specify the acceptable donor minimum and maximum height range and/or donor minimum and maximum weight range - registrations will only be accepted if at least one of these ranges is provided.
If an adult with weight > 30kg and \leq 40kg, Do you wish to register this patient as a small adult? No = 1 Yes = 2 No = 1 Yes = 2 A small adult is defined as being a patient weighing 30kg or less, though a centre may register a small adult weighing 40kg or less when there are specific reasons to justify inclusion in this priority group and if agreed by the CTAG (Heart) Adjudication Panel.
Do you want to register a paediatric patient $No = 1$ on the urgent or super-urgent adult list? $No = 1$ Yes = 2 If "Yes" is selected then the patient will be treated as an adult in the adult donor and paediatric donor heart allocation sequences and will not get priority access to paediatric donor hearts. This is at the centre's discretion and the patient should meet urgent or super-urgent adult listing criteria

UK TRANSPLANT REGISTRY

Your centre code should be quoted on all pages

Super-urgent/Urgent Heart Recipient Registration

Centre Transplant centre	ODT Recipient number (NHSBT to complete)				
INDICATION FOR REGISTRATION			S	ection 4	
For <u>ALL</u> patients specify the CATEGORY for super-urgent/urgent registration		ote: super-		tegory 12 , s 22 and 23	
SUPER-URGENT PATIENTS	ar re	nd urgent p quire appre	aediatric	category 59	
If Category 11: Adult or Small Adult on temporary VAD or VA-ECMO support, specify w	hich Temporary VAD = 1 VA-ECMO = 2		djudication	Panel	
If Category 12: Other super-urgent patients / paediatric super-urgent patients,					
Specify which Imminent risk of a	On IABP support = 1 dying/irreversible complications = 2 Paediatric on VA-ECMO = 3				
Agreed by CTAG (Heart) Adjudication Panel and evidence of agreement emailed to N					
URGENT ADULT PATIENTS					
If Category 21: Adult inpatient requiring inotrope therapy and/or IABP support,	No = 1				
On intravenous inotropes					
On IABP support	No = 1 Yes = 2				
Cardiogenic shock (blood lactate >2.0mmol/L and clinical evidence of hypoperfusion)	No = 1 Yes = 2				
Cardiorenal or hepatic indication (eGFR <40ml/min/1.73m ² and/or bilirubin >2x upper	limit of normal) No = 1 Yes = 2				
Adverse pulmonary haemodynamics (TPG>12mmHg and/or PVR >4WU at baseline of conventional medical therapy, leading to the use of inotropes and resulting in improve TPG and PVR, in patients where durable LVAD therapy is not preferred)	despite No = 1				
	failure dependent on inotropes = 1 ic infection related to VAD/TAH = 2 efractory VAD/TAH thrombosis = 3				
Agreed by CTAG (Heart) Adjudication Panel and evidence of agreement emailed to N	No - 1				
If Category 23 : Exceptionally sick patient - high risk of dying or having an irreversible co but does not meet urgent listing criteria,	mplication				
Agreed by CTAG (Heart) Adjudication Panel and evidence of agreement emailed to N	NO = 1 Yes = 2				
If Category 31: ACHD arrhythmia patients,	· · · · · · ·				
AST		U	J/L		
ALT		U	J/L		
Number of hospital admissions over last 3 months					
If Category 32: ACHD patients with no option for conventional escalation of therapy,					
Bilirubin a Specify justification Recurrent admissions with episodes of right heart failure or protein losing enteropa			nl/min/1	.73m ²	
If code 2, eGFR	Dialysis = 1				
If code 3, specify treatment	CVÝH = 2				
If code 4, no. of hospital admissions over last 3 months No. of episodes	of ascites drainage				
If Category 59 : Paediatric patients who do not meet urgent listing criteria but for whom th physicians believe urgent listing is justified,	he patient's transplant				
a) If maximum acceptable donor size specified to be <160 cm in height and <60kg in v	weight				
Agreed by the other paediatric transplant centre and the CTAG Chair or deputy and agreement emailed to NHSBT	d evidence of No = 1 Yes = 2				
b) If maximum acceptable donor size specified to be ≥ 160 cm in height or ≥ 60 kg in we	•				
Agreed by the other paediatric transplant centre and the CTAG (Heart) Adjudication the Chair or deputy and evidence of agreement emailed to NHSBT	n panel via No = 1 Yes = 2				

UK TRANSPLANT REGISTRY

Your centre code should be quoted on all pages

Super-ι	ırgeı	nt/Urg	jent	Heart	Recip	ient R	egistr	ation									
Centre code				Transp centre	lant				ODT Recipient num (NHSBT to complete)	ber							
CLINICAL	STATU	IS AND I	INVES	1		.TS					<u> </u>	Se	ction 5				
ls the patie If YES,	nt an i	npatient?	,			No = Yes =	1 2	Serum creatinine	Serum creatinine Not measured = 7777								
	of hosp sion	oital			2	Level 0 =		Haemoglobin	Not measured = 77.7		I	g/dl					
	of care					Level 0 = Level 1 = Level 2 = Level 3 =	White cell count	Not measured = 777.7	•	i	x10 ⁹ /l						
Does the p index of <2						No = Yes = None =	2	Serum bilirubin	Not measured = 777			µmol/l					
VAD VA-ECMO						Left = Right = Both = No =	3 4 1	C-reactive proteir	Not measured = 777			mg/l					
IABP						Yes = No = Yes =	1										
DRUG THE	RAPY											See	ction 6				
Dopamine						No = Yes =	1 2	If YES, give dose	<i>Unknown</i> = 99.9	•		µg/kg/m	iin				
Dobutamin	е					No = Yes =		If YES, give dose	<i>Unknown</i> = 99.9	•		µg/kg/m	nin				
Epinephrin	9					No = Yes =	1 2	If YES, give dose	Unknown = 9.99			µg/kg/m	iin				
Milrinone						No = Yes =	2	If YES, give dose	Unknown = 9.9	•		µg/kg/m	iin				
Enoximone						No = Yes =	2	If YES, give dose	Unknown = 99			µg/kg/m	nin				
Levosiman						No = Yes =		If YES, give dose	Unknown = 99			µg/kg/m	nin				
Other drug	thera	ру															
CONFIRMA		OF ELIG	IBILI	ſY								Se	ction 7				
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Contact tel	ephone	e number															
Signature																	
Date						2	0										

Your centre code should be quoted on all pages

Super-urgent/Urgent Heart Recipient Registration

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Recipient	surname			Ple	ease	e prir	nt																		 						
Recipient	forename	e(s)		Ple	ease	ə prir	nt																		 						
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Group	status 🥳	Group 1 = 1 Group 2 = 2	2]		Et	hnio	c oi	origi	in	(See	code	es ins	ide co	over)																
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