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Form 1: Listing

Toggle Question Year/Info   Print this Form   Not Started

1   **Listing Date**
[_____]
MM/DD/YYYY

Question Added: 01 JAN 1993
LISTDATE

2   **Residence Zip Code at Listing**
[_____]

Missing Reason:
◯ Unknown

Question Added: 31 AUG 2021
RES_ZIP_LISTING

2a   **Long distance patient or remote patient**
◯ Yes
◯ No

Long distanced defined as >30 miles or 50kms from the transplant center

Question Added: 01 AUG 2022
LSLDPT

Height and Weight

3a   **Height**
[_____]
◯ Centimeters
◯ Inches

HTLISTU

Question Added: 01 JAN 1993

Missing Reason:
◯ Not Done
◯ Unknown

HTLIST

Calculated

BSA: **n/a**
BMI: **n/a**

3b   **Weight**
[_____]
◯ Kilograms
◯ Pounds

WTLISTU

Question Added: 01 JAN 1993

Missing Reason:
◯ Not Done
◯ Unknown

WTLIST

4   **Main reason for listing**
Select only one primary reason for listing.

◯ CHD too high risk for palliative surgical options
◯ Growth failure due to the heart disease
◯ Hypercyanosis without further palliative surgical options
◯ Malignant arrhythmia
◯ Medically refractory heart failure
◯ Plastic bronchitis
◯ Progressive liver disease
◯ Progressive pulmonary hypertension
◯ Protein losing enteropathy
◯ Unknown

PRM_LIST

○ Other, specify

[_____]

                                                        PRMLSOTH

                                                                                    Question Added: 01 SEPT 2015

4a **Medically refractory heart failure**
- ○ Both
- ○ Diastolic Failure
- ○ Systolic Failure
- ○ Unknown

                                                                                    Question Added: 01 SEPT 2015
                                                                                                    PRMMRHF

4b **Specify malignant Arrhythmia?**
- ○ Primary tachy-arrhythmias
- ○ Inherited arrhythmias
- ○ Arrhythmogenic cardiomyopathies

                                                                                                    PRMSMA

Surgeries Prior to Listing

5 **Did the patient have any cardiac surgery prior to listing?**
VADs and ECMO should not be reported as a previous cardiac surgery. They should be reported in the status details if applicable (question 6). A Form 15 (MCSD Form) should be entered for each VAD and ECMO event.
- ○ Yes
- ○ No
- ○ Unknown

                                                                                    Question Added: 01 JAN 1993
                                                                                                    HXSURG

                                                                                    Dataset Name: LISTINGSURGERIES / LS_SURG

Surgery Details

5 **If Congenital cardiac surgery, specify surgery:**
- ○ Ablation (Radio/Cryo)
- ○ AICD Implant
- ○ ALCAPA / ALCAPA Repair
- ○ Ao Root Replacement/Revision
- ○ Aortic Arch Repair / Reconstruction
- ○ Aortic-Apical Conduit
- ○ Aorto-Pulmonary Arterioplasty
- ○ AP Shunt (including BT Shunt, Modified BT Shunt, Waterson Shunt, Pott's Shunt, Central Shunt, and MEE procedure)
- ○ Arterial Switch Operation
- ○ ASD Creation
- ○ ASD Repair
- ○ Atrial Septectomy
- ○ Atrial switch (Senning/Mustard)
- ○ AV Canal Repair
- ○ Blalock-Hanlon Septectomy
- ○ CABG / Coronary artery repair
- ○ Cardiac Tumor Resection
- ○ Coarctation Balloon Arterioplasty
- ○ Coarctation Repair
- ○ Complete AV Septal Defect Repair
- ○ Congenitally Corrected Transposition Repair (classic)

                                                                                                    SURGERY

○ Congenitally Corrected Transposition Repair
(double switch)
○ Damus Kaye Stansel (DKS)
○ Diaphragm plication
○ Double chamber right ventricle
○ Other, specify

[   ]   SURG_OSP

○ Ebstein's Anomaly Repair
○ Endocardial Fibrosis Resection (EFE)
○ Fontan Procedure
○ Glenn Procedure (includes bidirectional Glenn and
hemi-Fontan)
○ Glenn Revision
○ Glenn Takedown
○ Hybrid Palliation
○ Interrupted Aortic Arch Repair
○ Kawashima
○ Konno Procedure
○ LV-PA Conduit
○ Maze Procedure
○ Mediastinal Exploration for infection
○ MPA Closure
○ Norwood Stage I: BT Shunt
○ Norwood Stage I: Sano/RV-PA conduit
○ Norwood Stage I: Pulmonary Connection
Unknown
○ PA Banding
○ Pacemaker
○ PDA Closure
○ Pericardial Window
○ Pericardiectomy
○ Pulmonary Arterioplasty
○ Rastelli Procedure
○ Repair of Aortopulmonary Window
○ Repair of cor triatriatum
○ Repair of Pulmonary Vein Stenosis
○ Repair of TAPVC
○ Repair PAPVC
○ Ross Procedure
○ RVOT Augmentation
○ RV-PA Conduit
○ Subaortic Resection
○ Subpulmonary Resection
○ Supravalvar AS repair
○ SVC Repair
○ Thoracic Duct Ligation
○ TOF/DORV/RVOTO Repair
○ Truncus Arteriosus Repair
○ Unifocalization
○ Valve Replacement / Repair
○ Vascular Ring Repair
○ Ventricular Resection
○ VSD Enlargement
○ VSD Repair

5   **Date of Surgery** [   ]   Missing Reason:
○ Unknown

SURGDTE

5	Congenital cardiac surgery, Valve Replacement	☐ Aortic Valve Replacement / Repair	LSAORTIC
		☐ Mitral Valve Replacement / Repair	LSMITRAL
		☐ Pulmonary Valve Replacement / Repair	LSPULMV
		☐ Tricuspid Valve Replacement / Repair	LSTRICV
		☐ Single AV Valve Replacement/Repair	LSSNGAVV
		☐ Other, specify	LSVROTH
			LSVROTSP

5	Homograft Tissue in Aortic Valve Replacement?	○ Yes ○ No ○ Unknown	
			LSAORHOM

Status Details at Listing

6a	Status at Listing	○ Brazil ○ Canada ○ United Kingdom ○ United States	
		Question Added: 01 JAN 2010	LSCNTRY

6a.i	Brazil	○ Non-Priority ○ Priority	
		Question Added: 01 JAN 2010	LSBRZ_ST

6a.ii	Canada	○ 1 ○ 2 ○ 3 ○ 3.5 ○ 4 ○ 4S	
		Question Added: 01 JAN 2005	LSCA_ST

6a.iii	United Kingdom	○ Routine ○ Urgent	
		Question Added: 01 JAN 2005	LSUK_ST

6a.iv	Status at Listing, US	○ 1 (this option is only for listings prior to 1999) ○ 1A ○ 1B ○ 2 ○ 7	
		Question Added: 01 JAN 1993	STATLIST

6b	Was patient in or out of hospital at time of listing?	○ In hospital ○ Out of hospital	
		Question Added: 01 JAN 1993	SLHOSP

6b.i **Was patient in the ICU at time of listing?**
- ○ Yes
- ○ No
- ○ Unknown

Question Added: 01 JAN 1999
SLICU

6b.ii **Did the patient require continuous invasive mechanical ventilation?**
- ○ Yes
- ○ No
- ○ Unknown

Question Added: 01 JAN 1993
SLVENT

6c **Did the patient require continuous inotropes at time of listing?**
- ○ Yes
- ○ No
- ○ Unknown

Question Added: 01 JAN 1993
SLIVINO

6c.i **Inotropes Dose**
- ○ Dose Unknown
- ○ High Dose or Multiple IV
- ○ Single Low Dose

Question Added: 01 JAN 2005
SLINODS

6d **Did the patient have ductal dependent pulmonary or systemic circulation, with ductal patency maintained by stent or prostaglandin infusion?**
- ○ Yes
- ○ No
- ○ Unknown

Question Added: 01 SEPT 2015
SLDDPSC

Donor Blood Type	Recipient Blood Type			
	A	**B**	**AB**	**O**
A	*ABO compatible*	ABO incompatible	*ABO compatible*	ABO incompatible
B	ABO incompatible	*ABO compatible*	*ABO compatible*	ABO incompatible
AB	ABO incompatible	ABO incompatible	*ABO compatible*	ABO incompatible
O	*ABO compatible*	*ABO compatible*	*ABO compatible*	*ABO compatible*

6e **Was patient listed for an ABO Incompatible transplant?**
- ○ Yes
- ○ No
- ○ Unknown

Question Added: 01 JAN 2010
LSABOINC

6f **Was patient on a VAD or ECMO at time of listing?**
- ☐ VAD   SLVAD
- ☐ ECMO   SLECMO
- ☐ Not on support at time of listing   SLNOMCSD

Question Added: 01 JAN 1993

6f.i **Specify initiation date (VAD)**

[   ]

Missing Reason:
○ Unknown

Question Added: 01 JAN 1993
SLVTDATE

6f.ii **Specify initiation date (ECMO)**

[   ]

Missing Reason:
○ Unknown

SLECMODT

Question Added: 01 JAN 2005

6g	**Was patient listed for DCD (Donation after Cardiac Death) organ?**	○ Yes ○ No ○ Unknown ○ This is not current practice at our center ○ Not Applicable

Question Added: 01 SEPT 2015
LSDCD

Infectious Disease Screening

7a	**HIV Serology** AIDS testing	○ Negative	○ Not Done	○ Positive	○ Unknown

Question Added: 01 JAN 1993
HIV

7b	**CMV Serology**	○ Negative	○ Not Done	○ Positive	○ Unknown

Question Added: 01 JAN 1993
CMV

7c	**CMV PCR**	○ Negative	○ Not Done	○ Positive	○ Unknown

Question Added: 01 JAN 2010
LCMVPCR

7d	**EBV Serology**	○ Negative	○ Not Done	○ Positive	○ Unknown

Question Added: 01 JAN 1993
EBV

7e	**EBV PCR**	○ Negative	○ Not Done	○ Positive	○ Unknown

Question Added: 01 JAN 2010
LEBVPCR

7f	**IFA Toxo** Toxoplasma testing	○ Negative	○ Not Done	○ Positive	○ Unknown

Question Added: 01 JAN 1993
TOXO

7g	**HBs Ag** Hepatitis B surface antigen	○ Negative	○ Not Done	○ Positive	○ Unknown

Question Added: 01 JAN 1993
HBSAG

7h	**HB core Ab** Hepatitis B core antibody	○ Negative	○ Not Done	○ Positive	○ Unknown

Question Added: 01 JAN 1993
HBCAB

7i	**HBs Ab** Hepatitis B surface antibody	○ Negative	○ Not Done	○ Positive	○ Unknown

Question Added: 01 JAN 1993
HBSAB

7j	**Hep C Ab** Hepatitis C antibody	○ Negative	○ Not Done	○ Positive	○ Unknown

Question Added: 01 JAN 1993
HCAB

7k	**RPR/Syphilis** Syphilis testing	○ Negative	○ Not Done	○ Positive	○ Unknown

Question Added: 01 JAN 2005
RPR

Medical History at time of Listing

8	**Medical History**	○ Yes ○ No ○ Unknown		
			Question Added: 01 JAN 1993	
			HXMED	

8a — **Type of medical history at Listing**

☐ Arrythmia	HXARRYTH
☐ Cardiac Arrest/CPR	HXCPR
☐ Diabetes	HXDIAB
☐ GI/Nutrition	HXGI
☐ Heterotaxy/Isomerism	HXISO
☐ Malignancy	HXMALIG
☐ Metabolic/Disorder	HXMET
☐ Mitochondrial Disorder	HXMIT
☐ Neurologic	HXNEURO
☐ Pacemaker	PACEMAKE
☐ Peripheral Myopathy/Neuromuscular disease	HXPERMYO
☐ Prenatal Diagnosis	HXPRENAT
☐ Prior Transfusions	HXTRANS
☐ Renal Insufficiency	HXRENINS
☐ Respiratory	HXRESP
☐ Shock	HXSHOCK
☐ Syndrome	HXSYN
☐ Other, specify	HXOTHER
[ ]	SPECOTH

Question Added: 01 JAN 1993

8a.i — **Arrhythmia**

☐ Afib/flutter	HXAF_FL
☐ Complete heart block	HXCHB
☐ V Fibrillation	HXVFIB
☐ V Tachycardia	HXVTACH
☐ Unknown	HXARRUNK
☐ Other, specify	HXOTHARR
[ ]	SPECARRY

Question Added: 01 JAN 1993

8a.ii — **Cardiac arrest/CPR Date** [   ] MM/DD/YYYY

Missing Reason: ○ Unknown

Question Added: 01 JAN 1996
CPRDT

8a.iii — **Diabetes, Date of last Hgb A1c** [   ] MM/DD/YYYY

Missing Reason: ○ Unknown

Question Added: 01 SEPT 2015
HGBDATE

8a.iii — **Diabetes, Value of last Hgb A1c** [   ]

Missing Reason: ○ Unknown

Question Added: 01 SEPT 2015

HGBVALUE

8a.iii — **Diabetes, Treating with** ○ Yes
 ○ No

HXINSUL

insulin   ○ Unknown

Question Added: 01 JAN 1993 to 31 DEC 2004 | 01 SEPT 2015

8a.iv	**Medical History, GI/Nutrition**	☐ Failure to thrive/cachexia	HXFAIL
		☐ Fontan associated liver disease	HXFONLVR
		☐ Infectious hepatitis	HXHEP
		☐ Protein losing Enteropathy	HXPLE
		☐ Other, specify	HXGIOT
			HXGIOTSP

Question Added: 01 SEPT 2015

8a.iv.1	**GI/Nutrition, Infectious hepatitis type**	☐ A	HXHEPTYA
		☐ B	HXHEPTYB
		☐ C	HXHEPTYC
		☐ Unknown	HXHEPTYU
		☐ Other, specify	HXHEPTYO
			HXHEPSP

Question Added: 01 SEPT 2015

8a.v	**Medical History, Heterotaxy/Isomerism**	☐ Asplenia	HXASPLEN
		☐ Polysplenia	HXPLYSPL
		☐ Unspecified	HXISOUSP
		☐ Other, specify	HXISOTH
			HXISO_SP

Question Added: 01 SEPT 2015

8a.vi	**Medical History, Malignancy**	☐ Lymphoma, leukemia	HXLYMLEU
		☐ s/p BMT	HXSPBMT
		☐ s/p Chest Radiation	HXSPCRAD
		☐ Solid organ cancer	HXSOLORG
		☐ Unknown	HXMALUNK
		☐ Other, specify	HXMALOTH
			SPECMAL

Question Added: 01 JAN 1993

| 8a.vii | **Specify Metabolic Disorder** | | |

Question Added: 01 SEPT 2015
HXMETSP

8a.viii	**Medical History, Mitochondrial Disorder, specify**	○ Barth's	
		○ Unspecified	
		○ Other, specify	
			HXMITSP

Question Added: 01 SEPT 2015
HXMITTY

8a.ix	**Medical History, Neurologic**	☐ Anoxic brain injury	ANXINJ
		☐ Hemorrhagic and/or thromboembolic stroke	HXCVA
		☐ Other, specify	NEUROTH
			NEUROTSP

Question Added: 01 SEPT 2015

8a.ix.1
**Neurologic,
Anoxic brain injury Last Date**
MM/DD/YYYY

Missing Reason:
○ Unknown

Question Added: 01 SEPT 2015
ANXINJDT

8a.ix.2
**Neurologic,
Hemorrhagic and/or thromboembolic
stroke
Date Last**
MM/DD/YYYY

Missing Reason:
○ Unknown

Question Added: 01 SEPT 2015
CVADT

8a.x
Pacemaker

☐ Defibrilliator/AICD   HXAICD
☐ Pacemaker, CRT/biventricular pacing   LPACEBIV
☐ Pacemaker, not CRT and not ICD   LPACE

Question Added: 01 JAN 1993

8a.x.1
**Pacemaker,
Defibrillator/AICD
Date Placed**
MM/DD/YYYY

Missing Reason:
○ Unknown

Question Added: 01 JAN 1993 to 31 DEC 2004 | 01 JAN 2010
AICDDT

8a.x.2
**Pacemaker,
CRT/biventricular pacing,
Date Placed**
MM/DD/YYYY

Missing Reason:
○ Unknown

Question Added: 01 JAN 2010
BIVDTE

8a.x.3
**Pacemaker,
not CRT
and not
ICD,
Date Placed**
MM/DD/YYYY

Missing Reason:
○ Unknown

Question Added: 01 JAN 1993
PACEMDT

8a.xi
**Medical History,
Peripheral
myopathy/neuromuscular disease**

☐ Becker MuscularDystrophy   HXBECKMD
☐ Duschenne Muscular Dystrophy   HXDMD
☐ Freidrich's Ataxia   HXFREIDR
☐ Unspecified   PERMUNK
☐ Other, specify   PERMOTHR
     PERMOSP

Question Added: 01 SEPT 2015

8a.xii
History Dialysis

○ Dialysis, acute (within past 30 days)
○ Dialysis, chronic (>1 month duration)
○ Dysfunction, not dialysis

HXDYSDIA

○ Unknown
○ Other, specify

[   ]

HXRENSP

Question Added: 01 JAN 2010

8a.xiii	**Medical History, Respiratory**	☐ Asthma	HXPULDIS
		☐ Plastic Bronchitis	HXPB
		☐ Tracheostomy	HXTRACH
		☐ Unknown	HXRESPUN
		☐ Other, specify	HXOTRESP
		[ ]	HXSPRESP

Question Added: 01 SEPT 2015

8a.xiv	**Shock, Date of last appropriate Shock** MM/DD/YYYY	[ ]	**Missing Reason:** ○ Unknown

Question Added: 01 JAN 1996
SHOCKDT

8a.xv	**Medical History, Syndrome**	☐ Cardiofaciocutaneous Syndrome	HXCRD
		☐ Costello Syndrome	HXCOSTLO
		☐ Digeorge (22q11 deletion)	HXDIGORG
		☐ Down's/Trisomy 21	HXDOWNS
		☐ Ehlers-Danlos Syndrome	HXELRDAN
		☐ LEOPARD/Multiple Lentigenes	HXLEOPRD
		☐ Loeys-Dietz Syndrome	HXLYSDTZ
		☐ Marfan Syndrome	HXMARFNS
		☐ Noonan Syndrome	HXNOONAN
		☐ Other Marfan-like Syndrome	HXMRFNLK
		☐ Turner Syndrome	HXTURNER
		☐ Unspecified	HXSYN_U
		☐ Williams Syndrome	HXWILLIM
		☐ Other, specify	HXOTHRSN
		[ ]	OTHRSNSP

Question Added: 01 SEPT 2015

Insurance

9	**Primary Insurance**	○ Charitable Donation	
		○ Free	
		○ Government	
		○ Private	
		○ Self Pay	
		○ Unknown	
		○ Other, Specify	
		[ ]	
			P_SPINS

Question Added: 01 JAN 1996
P_INS

- Charitable Donation – Indicates that a company, institution or individual(s) donated funds to pay for the care of the listed patient.

- Free – Indicates that the listing hospital will not charge the patient for the cost of the hospitalization
- Government – Other US or state government insurance. For Example, Medicaid, Medicare, CHIP (Children's Health Insurance Program), Department of VA refers to funds from the Veterans Administration or others. Includes Single Payer Non-US.
- Private – Refers to funds from agencies such as Blue Cross/Blue Shield, etc. This also includes TRICARE.
- Self Pay – Indicates that the recipient will pay for the largest portion of the cost of the hospitalization.
- Other – For example, funds from a foreign government. Specify foreign country in the space provided.

Percent or Panel Reactive Antibody (closest to listing)

10a   **Cytotoxic PRA**
ie. Serum is tested against panel of lymphocytes
○ Done
○ Not Done

Question Added: 01 JAN 1993
LSPRA

10a.i   **T Cell**   [ ] %

Range Information
Too Low: < 0
Normal: Between 0 and 101
Question Zone: > 101
Red Flag Zone: > 101

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 1993

LSCPRAT

10a.ii   **B Cell**   [ ] %

Range Information
Too Low: < 0
Normal: Between 0 and 101
Question Zone: > 101
Red Flag Zone: > 101

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 1993

LSCPRAB

10a.iii   **Date (Cytotoxic PRA)**   [ ]

Missing Reason:
○ Unknown

Question Added: 01 JAN 1993
LSCPRADT

10b   **Cytotoxic PRA, DTE/DTT**
Panel performed on serum treated with DTE or DTT (or equivalent)
to reduce the IgM antibodies and identify high PRA results presumably secondary to a drug or other causes.
○ Done
○ Not Done

Question Added: 01 JAN 1993
LSPRADTE

10b.i   **T Cell**   [ ] %

Range Information
Too Low: < 0
Normal: Between 0 and 101
Question Zone: > 101
Red Flag Zone: > 101

Missing Reason:
○ Unknown

Question Added: 01 JAN 1993

LSPRDTET

10b.ii   **B Cell**   [ ] %

Range Information
Too Low: < 0
Normal: Between 0 and 101
Question Zone: > 101
Red Flag Zone: > 101

Missing Reason:
○ Unknown

Question Added: 01 JAN 1993

LSPRDTEB

10b.iii   **Date (Cytotoxic PRA, DTE/DTT)**   [ ]

Missing Reason:
○ Unknown

Question Added: 01 JAN 1993
LSPRDTDT

10c   **Flow Cytometry or Luminex PRA**
○ Done
○ Not Done

Question Added: 01 JAN 1996
LSFCPRA

10c.i

Class I

[_____]
%

Range Information
Too Low: < 0
Normal: Between 0 and 101
Question Zone: > 101
Red Flag Zone: > 101

Missing Reason:
○ Unknown

Question Added: 01 JAN 1996

LSFPRAT

10c.ii

Class II

[_____]
%

Range Information
Too Low: < 0
Normal: Between 0 and 101
Question Zone: > 101
Red Flag Zone: > 101

Missing Reason:
○ Unknown

Question Added: 01 JAN 1996

LSFPRAB

10c.iii

Date
MM/DD/YYYY

[_____]

Missing Reason:
○ Unknown

Question Added: 01 JAN 1996
LSFPRADT

10d

Listed for prospective crossmatch

○ Yes
○ No
○ Unknown

Question Added: 01 JAN 2010
LSPROCM

10d.i

Prospective Crossmatch Results

○ Donor Cells
○ Donor Cells and Virtual
○ Virtual
○ Unknown

Question Added: 01 JAN 2010
LSPCMT

10d.i.1

Virtual Crossmatch

○ Avoidance of donor antigens to all antibodies present
○ Avoidance of donor antigens to antibodies above pre-specified threshold
○ Avoidance of donor antigens to C1q fixing antibodies only
○ Unknown

Question Added: 01 SEPT 2015
LSVCMA

Hemodynamics Prior to Listing

Indicate the hemodynamics even if the patient is on pressors or inotropes. Best hemodynamics are those performed during the administration of agents given specifically to lower the pulmonary arterial pressure or the pulmonary vascular resistance. All pressures should be listed in mmHg. If unclear, please consult with your PI.

11

Were hemodynamics done prior to listing?

○ Yes
○ No
○ Unknown

Question Added: 01 JAN 1993
LSHEMO

11a

Date
MM/DD/YYYY

[_____]

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 1993
LSHEMDT

11b

Fontan Mean Pressure
mmHg

[_____]

Range Information
Too Low: < 0
Normal: Between 0 and 40
Question Zone: > 41
Red Flag Zone: > 41

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 SEPT 2015

LSFPRES

11c

RAm (RAP or CVP)
Right Atrial Mean Pressure
mmHg

[_____]

Range Information
Too Low: < 0
Normal: Between 0 and 40
Question Zone: > 41
Red Flag Zone: > 41

Missing Reason:
○ Not Done

Question Added: 01 JAN 1993

LSBRAM

○ Unknown

11d   **PAm**
Pulmonary Artery Mean
mmHg

Range Information
Too Low: < 0
Normal: Between 0 and 50
Question Zone: > 51
Red Flag Zone: > 51

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 1993

LSBPAM

11e   **PCW**
Mean Pulmonary Capillary Wedge Pressure
mmHg

Range Information
Too Low: < 0
Normal: Between 0 and 60
Question Zone: > 61
Red Flag Zone: > 61

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 1993

LSBPCW

11f   **SVC Sat**
Oxygen Saturation in the SVC
%

Range Information
Too Low: < 0
Normal: Between 0 and 100
Question Zone: > 101
Red Flag Zone: > 101

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 2010

LSSVCSAT

11g   **AO Sat**
Aortic Saturation
%

Range Information
Too Low: < 0
Normal: Between 0 and 100
Question Zone: > 101
Red Flag Zone: > 101

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 2005

LSBAOSAT

11h   **Rp, PVRI**
Pulmonary resistance indexed to body surface area (BSA)
Woods Units × m^2
wu × m^2

Range Information
Too Low: < 0
Normal: Between 0 and 50
Question Zone: > 51
Red Flag Zone: > 51

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 1993

LSBRP

11i   **Rs, SVRI**
Systemic resistance indexed to body surface area (BSA)
Woods Units × m^2
wu × m^2

Range Information
Too Low: < 0
Normal: Between 0 and 40
Question Zone: > 41
Red Flag Zone: > 41

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 1993

LSBRS

11j   **EDP**
End diastolic pressure of systemic ventricle
mmHg

Range Information
Too Low: < 0
Normal: Between 0 and 60
Question Zone: > 61
Red Flag Zone: > 61

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 2010

LSEDP

11k   **C.O.**
Cardiac Output (i.e. Qs)
L/min

Range Information
Too Low: < 0
Normal: Between 0 and 20
Question Zone: > 21
Red Flag Zone: > 21

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 1993

LSBCO

11l   **C.I.**
Cardiac index (i.e. C.O. divided by m^2)
L/min/m^2

Range Information
Too Low: < 0
Normal: Between 0 and 15
Question Zone: > 16
Red Flag Zone: > 16

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 1993

LSBCI

11m   **Was patient on mechanical support at time of Hemodynamics**
○ Yes
○ No
○ Unknown

Question Added: 01 SEPT 2015
LSMSHEMO

11n   **Hemodynamic Agents Used**
○ Yes
○ No
○ Unknown

Question Added: 01 JAN 1993
LSHEMAGT

11n.i   **Indicate agent for best hemodynamics**
☐ 100% O2   LSHPO2
☐ Dobutamine   LSDOBUT
☐ Dopamine   LSDOPA
☐ Unknown   LSUNKN
☐ Epinephrine   LSEPI

☐ Isoproterenol (Isuprel)   LSISUPRO
☐ Milrinone (Primacor)   LSMILRIN
☐ Nesiritide   LSHNES
☐ Nitric Oxide   LSNOX
☐ Nitroglycerin   LSNITRO
☐ Nitroprusside (Nipride)   LSNITROP
☐ Norepinephrine   LSNOREPI
☐ PGE (Alprostadil)   LSPGE
☐ PGI (Flolan)   LSPGI
☐ Phenylephrine/ Neosynephrine   LSPHEN
☐ Sildenafil   LSSILD
☐ Vasopressin   LSVASO
☐ Other, specify   LSOHMD

[   ]   LSOHMDSP

Question Added: 01 JAN 1993

Schooling

12	**Is the patient in school?**	○ Yes
		○ No
		○ Not Applicable, <6 years
		○ Unknown

Question Added: 01 JAN 1996
LSCHOOL

12	**Are they at the age appropriate level**	○ Yes
		○ No
		○ Unknown

AASCHOOL

12b	**Are they in a special education class**	○ Yes
		○ No
		○ Unknown

Question Added: 01 JAN 1996
SPSCHOOL

Exercise Test

13	**Was exercise test performed?**	○ Yes
		○ No
		○ Unknown
		○ Not Routinely Done

Question Added: 01 JAN 2005
LSTTPERF

13a	**If exercise test not performed, specify reason**	○ Age inappropriate
		○ Too sick
		○ Unknown
		○ Other, specify

[   ]

TTNDRS

Question Added: 01 JAN 2015
TTNDR

Question Added: 01 JAN
PCAGE

13b **Max VO$_2$% Predicted for Age**
Refers to predicted maximum VO$_2$ for patient (should be listed in exercise report; if not, exercise lab personnel should be able to provide this data)

%

Missing Reason:
○ Unknown
○ Not Done

2005

13c **Max VO$_2$**
Maximum oxygen consumption

ml/kg/min

Missing Reason:
○ Unknown
○ Not Done

Question Added: 01 JAN 1996

TTMAXVO2

13d **Respiratory Value at Peak**
RER or Respiratory Quotient:R Value at peak is the respiratory quotient of carbon dioxide production divided by oxygen consumption, and is used as an index of how vigorously the patient exercised.
A value above 1.05 is generally considered to represent an adequate effort.

Missing Reason:
○ Unknown
○ Not Done

Question Added: 01 SEPT 2015

TTRMAX

Laboratory Values closest to time of this report
Note: labs may have been collected on different dates.

14a **Total Bilirubin**

○ mg/dL
○ umol/L

Range Information
Too Low: < 0
Normal: Between 0.3 and 1.2
Question Zone: > 2.4
Red Flag Zone: > 10

LSBILI_T_U

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 2005

LSBILI_T

14b **Direct Bilirubin**

○ mg/dL
○ umol/L

Range Information
Too Low: < 0
Normal: Between 0 and 0.2
Question Zone: > 0.4
Red Flag Zone: > 5

LSBILI_D_U

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 2005

LSBILI_D

14c **AST**
Aspartate transaminase (also SGOT)

U/L

Range Information
Too Low: < 0
Normal: Between 10 and 60
Question Zone: > 120
Red Flag Zone: > 1000

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 2005

LSAST

14d **ALT**
Alanine transaminase (also SGPT)

U/L

Range Information
Too Low: < 0
Normal: Between 7 and 45
Question Zone: > 90
Red Flag Zone: > 1000

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 2005

LSALT

14e **BNP**
B-type natriuretic peptide

pg/mL or ng/L

Range Information
Too Low: < 0
Normal: Between 10 and 100
Question Zone: > 1000
Red Flag Zone: > 10000

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 2010

LBNP

14f **Pro BNP**
Pro NT B-type natriuretic peptide

○ pg/mL or ng/L
○ pmol/L

Range Information
Too Low: < 0
Normal: Between 10 and 300
Question Zone: > 3000
Red Flag Zone: > 30000

LSPBNP_U

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 SEPT 2015

LSPBNP

14g	**CRP** C reactive protein ○ mg/dL ○ mg/L	**Range Information** Too Low: < 0 Normal: Between 0 and 0.5 Question Zone: > 5 Red Flag Zone: > 50 LCRP_U	Missing Reason: ○ Not Done ○ Unknown	Question Added: 01 JAN 2010 LCRP
14h	**Creatinine** ○ mg/dL ○ umol/L	**Range Information** Too Low: < 0 Normal: Between 0.2 and 1.3 Question Zone: > 2.6 Red Flag Zone: > 10 LCREAT_U	Missing Reason: ○ Not Done ○ Unknown	Question Added: 01 JAN 93 to 31 DEC 2004 | 01 JAN 2010 - CURRENT LCREAT
14i	**BUN** Blood urea nitrogen ○ mg/dL ○ Urea mmol/L	**Range Information** Too Low: < 0 Normal: Between 4 and 20 Question Zone: > 40 Red Flag Zone: > 120 LBUN_U	Missing Reason: ○ Not Done ○ Unknown	Question Added: 01 JAN 2010 LBUN
14j	**Cystatin C** mg/L	**Range Information** Too Low: < 0 Normal: Between 0.5 and 1.4 Question Zone: > 2.8 Red Flag Zone: > 10	Missing Reason: ○ Not Done ○ Unknown	Question Added: 01 SEPT 2015 LSCSTAT
14k	**Total Protein** ○ g/dL ○ g/L	**Range Information** Too Low: < 0 Normal: Between 3.6 and 8.1 Question Zone: > 12 Red Flag Zone: > 16 LSTP_U	Missing Reason: ○ Not Done ○ Unknown	Question Added: 01 JAN 1999 LSTP
14l	**Pre Albumin** ○ mg/dL ○ g/L	**Range Information** Too Low: < 0 Normal: Between 15 and 40 Question Zone: > 60 Red Flag Zone: > 80 LSPALB_U	Missing Reason: ○ Not Done ○ Unknown	Question Added: 01 JAN 2015 LSPALB
14m	**Serum Albumin** ○ g/dL ○ g/L	**Range Information** Too Low: < 0 Normal: Between 1.9 and 5.8 Question Zone: > 10 Red Flag Zone: > 12 LSSAB_U	Missing Reason: ○ Not Done ○ Unknown	Question Added: 01 JAN 1999 LSSAB
14n	**Cholesterol** Total Cholesterol ○ mg/dL ○ mmol/L	**Range Information** Too Low: < 50 Normal: Between 50 and 199 Question Zone: > 300 Red Flag Zone: > 600 LCHOL_U	Missing Reason: ○ Not Done ○ Unknown	Question Added: 01 JAN 2010 LCHOL
14o	**TG** Triglycerides ○ mg/dL ○ mmol/L	**Range Information** Too Low: < 0 Normal: Between 28 and 149 Question Zone: > 250 Red Flag Zone: > 500 LTG_U	Missing Reason: ○ Not Done ○ Unknown	Question Added: 01 JAN 2010 LTG
14p	**LDL** Low density lipoprotein ○ mg/dL ○ mmol/L	**Range Information** Too Low: < 40 Normal: Between 40 and 159 Question Zone: > 250 Red Flag Zone: > 500 LLDL_U	Missing Reason: ○ Not Done ○ Unknown	Question Added: 01 JAN 2010 LLDL
14q	**HDL** High density lipoprotein ○ mg/dL ○ mmol/L	**Range Information** Too Low: < 10 Normal: Between 35 and 55 Question Zone: > 70 Red Flag Zone: > 80 LHDL_U	Missing Reason: ○ Not Done ○ Unknown	Question Added: 01 JAN 2010 LHDL
		Range Information		LVLDL

| 14r | **VLDL** | [   ] | Too Low: < 0 | Missing Reason: | Question Added: 01 JAN 2010 |

14r   **VLDL**

Very low density lipoprotein

○ mg/dL
○ mmol/L

Too Low: < 0
Normal: Between 2 and 30
Question Zone: > 60
Red Flag Zone: > 250

Missing Reason:
○ Not Done
○ Unknown

Question Added: 01 JAN 2010

LVLDL_U

NYHA and Ross' Heart Failure

15   **NYHA Class**
○ 1
○ 2
○ 3
○ 4
○ Not Done
○ Unknown

Question Added: 01 JAN 2005
LSNYHA

NYHA Classes

- **Class I**: No symptoms at any level of exertion and no limitation in ordinary physical activity.
- **Class II**: Mild symptoms and slight limitation during regular activity. Comfortable at rest.
- **Class III**: Noticeable limitation due to symptoms, even during minimal activity. Comfortable only at rest.
- **Class IV**: Severe limitations. Experience symptoms even while at rest (sitting in a recliner or watching TV).

16   **Ross' Heart Failure Class**
○ 1
○ 2
○ 3
○ 4
○ Not Done
○ Unknown

Question Added: 01 JAN 2005
LSRHFCL

Ross Heart Failure Classes

- **Class I**: No limitations or symptoms
- **Class II**: Mild tachypnea and/or diaphoresis with feeds in infants; dyspnea on exercise in older children. No growth failure.
- **Class III**: Marked tachypnea and/or diaphoresis with feeds or exertion and prolonged feeding time with growth failure.
- **Class IV**: Symptomatic at rest with tachypnea, retractions, grunting or diaphoresis.