Preimplant Status

Patient Information

Admission Date for This Hospitalization		
	ST= O Not Applicable, Patient Still Hospitalized O Unknown	
Height Enter the height of the patient at the time of implantation in	in	
inches or centimeters.	cm	
Weight	lbs	
Enter the weight of the patient at the time of implantation in the appropriate space, in pounds or kilograms.		
	kg	
BSA	1.98 m ²	
BMI	24.07 kg/m ²	
BloodType	00	
	\bigcirc A	
	⊖В	
	○ AB	
	○ Unknown	
Payor	Government Health Insurance	
	Commercial Health Insurance	
	Health Maintenance Organization	
	□ Non-U.S. Insurance □ None / Self	
National Provider Identifier (NPI) Info	ormation	
Surgeon First Name		
	ST: O Unknown	
Surgeon Middle Name		
	ST: O Unknown	
Surgeon Last Name		
	ST: O Unknown	
Surgeon NPI		

ST: O Unknown

Current Device Strategy at time of implant	◯ Bridge to Recovery		
This should be determined in conjunction with the heart	○ Encept to receively		
failure cardiologist and surgeon at the time of the implant.	 Bridge to Transplant (patient currently listed for transplant) 		
This determination will be re-visited and recorded at 3			
months, 6 months, and every 6 months thereafter.	 Possible Bridge to Transplant - Likely to be eligible Possible Bridge to Transplant - Moderate likelihood of becoming eligible 		
	 Possible Bridge to Transplant - Woderlate interinteed of becoming engible Possible Bridge to Transplant - Unlikely to become eligible 		
	 Destination Therapy (patient definitely not eligible for transplant) 		
	O Other, specify		
Enter UNOS waitlist ID number			
	ST: O Unknown		
Time since first cardiac diagnosis	⊖ < 1 month		
The length of time that the patient had any known cardiac	⊖ 1 month - 1 year		
diagnosis. For example, the time since the patient had a	\bigcirc 1-2 years		
myocardial infarction, congenital heart disease was noted or the patient was noted to have heart failure.	\bigcirc > 2 years		
	⊖ Unknown		
Number of cardiac hospitalizations in the last	○ 0-1		
12 months	○ 2-3		
	\bigcirc 4 or more		
	O Unknown		
History of Cardiac Arrhythmia	⊖ Yes		
	○ No		
	OUnknown		
Current ICD device in place?	○ Yes		
	○ No		
	O Unknown		
If yes:			
	○ ICD/CRT		
Primary Cardiac Diagnosis	⊖ Cancer		
Select primary reason for cardiac dysfunction	○ Congenital Heart Disease: Biventricular: CAVC/VSD/ASD		
	\bigcirc Congenital Heart Disease: Biventricular: Congenitally Corrected		
	Transposition (I-TGA) (CC-TGA)		
	\bigcirc Congenital Heart Disease: Biventricular: Ebstein's Anomaly		
	\bigcirc Congenital Heart Disease: Biventricular: Kawasaki Disease		
	O Congenital Heart Disease: Biventricular: Left Heart Valve/Structural		
	Hypoplasia		
	() Concentral Heart Diseases Biventriculary TOE/TOE Variant		
	Congenital Heart Disease: Biventricular: TOF/TOF Variant		
	 Congenital Heart Disease: Biventricular: TOP/TOP variant Congenital Heart Disease: Biventricular: Transposition of the Great Arteries (d-TGA) 		

2

- \bigcirc Congenital Heart Disease: Single Ventricle: Heterotaxy / Complex CAVC
- \bigcirc Congenital Heart Disease: Single Ventricle: Hypoplastic Left Heart
- Congenital Heart Disease: Single Ventricle: Other
- O Congenital Heart Disease: Single Ventricle: Pulmonary Artesia with IVS
- Congenital Heart Disease: Single Ventricle: Pulmonary Artesia with IVS (RVDC)
- O Congenital Heart Disease: Single Ventricle: Unspecified
- Coronary Artery Disease
- Dilated Myopathy: Adriamycin
- Dilated Myopathy: Alcoholic
- O Dilated Myopathy: Familial
- Dilated Myopathy: Idiopathic
- Dilated Myopathy: Ischemic
- Dilated Myopathy: Myocarditis
- O Dilated Myopathy: Other, Specify
- Dilated Myopathy: Post Partum
- Dilated Myopathy: Viral
- Hypertrophic Cardiomyopathy
- Non-Compaction Cardiomyopathy
- Restrictive Myopathy: Amyloidosis
- Restrictive Myopathy: Endocardial Fibrosis
- Restrictive Myopathy: Idiopathic
- Restrictive Myopathy: Other, specify
- \bigcirc Restrictive Myopathy: Sarciodosis
- \bigcirc Restrictive Myopathy: Sec to Radiation/Chemotherapy
- Valvular Heart Disease
- \bigcirc Unknown
- \bigcirc None

Clinical Events and Interventions BEFORE Implant Hospitalization

Known Cardiac biopsy

If the patient has had an endomyocardial or direct myocardial biopsy, select from the diagnoses listed in the drop down. If the patient has had more than one biopsy

(within their lifetime), the one closest to implantation date should be listed it is okay to use cardiac biopsy removed during the implant operation. If no biopsy is known, select "no biopsy known".

- \bigcirc No biopsy known
- Sarcoidosis
 - \bigcirc Giant cell myocarditis
- \bigcirc Eosiniphilic myocarditis
- \bigcirc Other myocarditis
- Hemochromatosis
- \bigcirc Mitochondrial myopathy
- Other, specify

	 Cardiogenic Shock Other cardiology Unknown 	
	 TAH placement, planned Acute MI Non-cardiac surgery 	
	 Non-cardiac medical problem VAD placement, planned 	
Initial Reason for the Current Hospitalization	 ○ Decompensated heart failure ○ Open heart, cardiac surgical procedure 	
	Other, specify (INCLUDE ONLY OPERATIONS ACTUALLY PERFORMED ON HEART OR GREAT VESSELS)	
	Previous ECMO Complex Aortic Surgery	
	Previous heart transplant	
	RVAD, Temporary TAH	
	RVAD, Durable implantable	
	□ LVAD, Temporary □ LVAD, Durable implantable	
	Congenital cardiac surgery	
	Triscuspid replacement /repair	
	 ☐ Aortic Valve replacement / repair ☐ Mitral valve replacement / repair 	
this implant hospitalization.	Aneuryomectomy (DOR)	
Prior Cardiovascular Intervention (surgical) Select all cardiac operations that the patient has had prior to	□ None □ CABG	
	O Unknown	
Prior medical history of dialysis?	○ Yes ○ No	
	□ None	
	□ TAVR □ Other, Specify	
	question 'Current ICD Device in place?' in medical support status section and do not duplicate here).	
	\Box Prior medical history of CRT (if pt. currently on CRT, please document in	
prior to this implant hospitalization.	status section and do not duplicate here).	
Select all non-surgical interventions that the patient has had prior to this implant hospitalization.		
	\Box Prior medical history of ICD (if pt. currently has ICD in place, please	

Clinical Events and Interventions this				
hospitalization (Pre-implant)				

Pertaining to this current hospitalization, select all events and interventions that occurred.

Cardia	ac arrest
--------	-----------

Dialysis

□ Myocardial Infarction

- □ Positive blood cultures
- □ Major Infection

- □ Ultrafiltration
- □ Feeding tube
- □ ECMO
- □ Aortic Valve replacement / repair
- □ Mitral valve replacement / repair
- Congenital cardiac surgery
- LVAD, Temporary
- □ RVAD, Durable implantable

- □ Percutaneous Coronary Intervention
- Permanent Pacemaker
- □ CardioMEMS
- □ Mitraclip
- □ TAVR
- Unknown
- □ None

○ Yes

- LVAD, Durable implantable
- RVAD, Temporary

Was IV inotrope or vasopressor therapy used within 48 hours of implant

If the patient has gone to the operating room for the purpose

If Yes, select therapy agents

○ No OUnknown

of the implant and is on intravenous inotropes of any sort, the answer should be Yes. If an agent is known to have been used but discontinued within 48 hours prior to arriving in the operating room, Yes should also be checked.

Dopamine □ Milrinone Levosimendan Epinephrine □ Norepinephrine □ Isoproterenol □ Phenylephrine □ Vasopressin □ Angiotensin II Other, Specify

> Unknown \square

Dobutamine

○ Yes Is this implant the primary MCSD (LVAD or ○ No TAH) for this patient?

Did this patient test positive for COVID-19 during this pre-implant admission?



◯ Yes

The INTERMACS® Patient Profiles are required at pre-implant and at all times when an implant occurs even if this is NOT the primary LVAD or TAH implant.

INTERMACS® Patient Profile at time of implant O 1 "Critical cardiogenic shock" describes a patient who is "crashing and burning", in which a patient has life-threatening hypotension and rapdily Select one. These profiles will provide a general clinical description of the patients receiving primary LVAD or TAH implants. If there is significant clinical change between the initial decision to implant and the actual implant procedure, then the profile closest to the time of implant should be recorded. Patients admitted electively for implant should be described by the profile just prior to admission.

escalating inotropic pressor support (see the Site Users Guide, Section II. 2.4 Pre-Implant Form, INTERMACS Patient Profiles for more details)

- 2 "Progressive decline" describes a patient who has been demonstrated "dependent" on inotropic support but nonetheless shows signs of continuing deterioration (see the Site Users Guide, Section II. 2.4 Pre-Implant Form, INTERMACS Patient Profiles for more details)
- 3 "Stable but inotrope dependent" describes a patient who is clinically stable on mild-moderate doses of intravenous inotropes (or has a temporary circulatory support device) after repeated documentation of failure to wean without symptoms (see the Site Users Guide, Section II.
 2.4 Pre-Implant Form, INTERMACS Patient Profiles for more details)

 4 "Resting symptoms" describes a patient who is at home on oral therapy but frequently has symptoms of congestion at rest or with ADL. (see the Site Users Guide, Section II. 2.4 Pre-Implant Form, INTERMACS Patient Profiles for more details)

- 5 "Exertion Intolerant" describes a patient who is comfortable at rest but unable to engage in any activity, living predominantly within the house or household (see the Site Users Guide, Section II. 2.4 Pre-Implant Form, INTERMACS Patient Profiles for more details)
- O 6 "Exertion Limited" also describes a patient who is comfortable at rest without evidence of fluid overload, but who is able to do some mild activity (see the Site Users Guide, Section II. 2.4 Pre-Implant Form, INTERMACS Patient Profiles for more details)
- 7 "Advanced NYHA Class 3" describes a patient who is clinically stable with a reasonable level of comfortable activity, despite history of previous decompensation that is not recent (see the Site Users Guide, Section II.
 2.4 Pre-Implant Form, INTERMACS Patient Profiles for more details)

Clinical Findings

Ascites	 ○ Yes ○ No ○ Unknown
Peripheral Edema	 ○ Yes ○ No ○ Unknown

Hemodynamics

All data collected on this form should be collected at the same time.

General Hemodynamics

General Hemodynamics Date		
	ST= O Unknown	
	○ Not Done	
Heart rate		
		beats per min
	ST: O Unknown	
	○ Not done	
Systolic blood pressure		mmHg
(millimeters of mercury) should be determined from		ig
auscultation or arterial line if necessary.	ST: O Unknown	
	○ Not done	
Diastolic blood pressure		mmHg
(millimeters of mercury) should be determined from	ST: O Unknown	
auscultation or arterial line if necessary	\bigcirc Not done	
Mean arterial blood pressure		mmHg
	ST: O Unknown	5
	\bigcirc Not done	
	\bigcirc Not applicable	
ECG rhythm	◯ Sinus	
Cardiac rhythm	\bigcirc Atrial fibrillation	
	\bigcirc Atrial Iblination \bigcirc Atrial Flutter	
	 Atrial dysrhythmia, Other 	
	 ○ Atrial dyshrytimia, Other ○ Atrial paced, Ventricular sensed 	
	 ○ Atrial paced, Ventricular ○ Atrial sensed, Ventricular 	
	\bigcirc Atrial paced, Ventricular p	
	 Atrial paced, ventricular paced Junctional Not done 	
	OUnknown	
	⊖ Other, specify	

Echo Findings

Echo Hemodynamics Date	
	ST= 🔿 Unknown
	○ Not Done
Mitral regurgitation	○ 0 (none)
Mitral regurgitation should be recorded on a qualitative scale	\bigcirc 1 (mild)
(if 'trivial' then assign as mild). Moderate-severe would be	\bigcirc 2 (moderate)
recorded as 'severe'.	
	○ Not Recorded or Not Documented
Tricuspid regurgitation	○ 0 (none)
Tricuspid regurgitation should be recorded on a qualitative	\bigcirc 1 (mild)
scale (if 'trivial' then assign as mild). Moderate-severe would	
be recorded as 'severe'.	○ 2 (moderate)
	○ 3 (severe)
	○ Not Recorded or Not Documented
Aartia requiraitation	
Agric regurgitation	\bigcirc 0 (none)
Aortic regurgitation should be recorded on a qualitative scale (if 'trivial' then assign as mild). Moderate-severe would be	\bigcirc 1 (mild)
recorded as 'severe'.	\bigcirc 2 (moderate)
	\bigcirc 3 (severe)
	\bigcirc Not Recorded or Not Documented
LVEF	⊖ > 50 (normal)
	○ 40-49 (mild)
	\bigcirc 30-39 (moderate)
	\bigcirc 20-29 (moderate/severe)
	⊖ < 20 (severe)
	Not Recorded or Not Documented
	○ Unknown
LVEDD	cm
	ST: O Not Recorded or Not Documented
RVEF	⊖ Normal
	⊖ Mild
	○ Moderate
	⊖ Severe
	○ Not Done
	○ Unknown
Swan Hemodynamics	
Swan Hemodynamics Date	
-	
	ST= 🔿 Unknown
	ST= O Unknown O Not Done
Pulmonary artery systolic pressure	

	ST: OUnknown		
	⊖ Not done		
Pulmonary artery diastolic pressure		mmHg	
		lining	
	ST: O Unknown		
	○ Not done		
Mean Pulmonary Artery Capillary Wedge			
Pressure		mmHg	
11000010	ST: 🔿 Unknown		
	\bigcirc Not done		
Central Venous Pressure (CVP) or Right Atrial		mmHg	
Pressure	ST: O Unknown		
	\bigcirc Not done		
Cardiac Index		L/min/M2 (by Swan)	
		L/IIII/M2 (by Swarr)	
	ST: 🔿 Unknown		
	\bigcirc Not done		
Was Cardiac Index Measured by Fick or	◯ Yes		
Thermodilution?	○ No		
mermodilation			
Choose Method	□ Fick		
Cardiac output			
		L/min	
	ST: O Unknown		
	⊖Not done		
	<u></u>		
Was Cardiac Output Measured by Fick or	⊖ Yes		
Thermodilution?	○ No		
Choose Method	□ Fick		
	Thermodilution		

Laboratory

Sodium		mEq/L
		mmol/L
		mmol/L
	ST= ◯ Unknown ◯ Not done	
Potassium		mEq/L
		mmol/L
	ST= () Unknown	
	\bigcirc Not done	
Blood urea nitrogen		mg/dL
		mmol/L
	ST= ⊖ Unknown ⊖ Not done	
Creatinine		
		mg/dL
		umol/L
	ST= 🔿 Unknown	
	◯ Not done	
SGPT/ALT		u/L
(alanine aminotransferase/ALT)	ST= 〇 Unknown	
	\bigcirc Not done	
SGOT/AST		u/L
(aspartate aminotransferase/AST)		u/L
	ST= ◯ Unknown ◯ Not done	
LDH		units/L, U/L, ukat/L
	ST= 〇 Unknown	
	\bigcirc Not done	
Total bilirubin		mg/dL
		umol/L
	ST= O Unknown	
	◯ Not done	
Albumin		
		g/dL
		g/L

		07/01
	ST= ○ Unknown ○ Not done	
Pre-albumin		mg/dL
		mg/L
	ST= 〇 Unknown 〇 Not done	
Total Cholesterol		mg/dL
If value is outside given range, please see 'Status (ST=)' drop down field.		mmol/L
If < 50 mg/dl, select from the 'Status (ST=)' drop down field.	ST= ◯ < 50 mg/dL	
	 ○ Unknown ○ Not done 	
Brain natriuretic peptide BNP If value is outside given range, please see 'status (ST=)'		pg/mL
drop down field.		ng/L
If > 7500 pg/mL, select from the 'Status (ST=)' drop down field.	ST= () > 7500 pg/mL	
	○ Unknown○ Not done	
NT pro brain natriuretic peptide Pro-		pg/mL
BNP		ng/L
	ST= 〇 Unknown	
	\bigcirc Not done	
White blood cell count		x10 ³ /uL
		x10 ⁹ /L
	ST= 〇 Unknown	
	\bigcirc Not done	
Hemoglobin		g/dL
		g/L
		mmol/L
	ST= 〇 Unknown	Inino/L
	○ Not done	
Platelets		x10 ³ /uL
		x10 ⁹ /L
	ST= 〇 Unknown	
	⊖ Not done	
Hemoglobin A1C		%
		mmol/mol
	Estimated Average Glucose	(eAG):
		mg/dL
		J J –

		mmol/L
	ST= O Unknown	
	\bigcirc Not Done	
INR		international units
	ST= O Unknown	
	○ Not done	
Sensitivity CRP		
(C Reactive Protein)		mg/L
(o Reactive Protein)	ST= 🔾 Unknown	
	\bigcirc Not done	
Lupus Anticoagulant	○ Positive	
Lupus Anticoaguant	○ Negative	
	OUnknown	
Uric acid		mg/dL
		ing/dL
		umol/L
	ST= 〇 <1 mg/dL	
	OUnknown	
	\bigcirc Not done	
Lymphocyte Count		%
		x10 ³ cells/µL
		x10 ⁹ cells/liter
	ST= 🔿 Unknown	
	◯ Not done	

Comorbidities

Which comorbidities were present at the time of the durable MCSD implant?

Cardiothoracic issues

Frequent ICD Shocks

If a patient has 3 or more shocks in a 24 hour episode

○ No ○ Unknown

○ Yes

Chronic Lung Disease Definition: Indicate whether the patient has chronic lung disease, and the severity level according to the following classification:

- Mild: FEV1 60% to 75% of predicted or on chronic inhaled or oral bronchodilator therapy.
- Moderate: FEV1 50% to 59% of predicted or on chronic oral/systemic steroid therapy aimed at lung disease.
- Severe: FEV1 < 50% or Room Air pO2 < 60 or pCO2 > 50.
- CLD present, severity not documented.
- Unknown

Time Frame: Do not use values obtained more than 12 months prior to the date of surgery. Spirometry results that have not been interpreted by a pulmonologist may be used to quantify chronic lung disease.

Chronic Lung Disease	 ○ Yes ○ No ○ Unknown
Type of Chronic Lung Disease	 Obstructive Restrictive Obstructive/Restrictive Unknown Other, specify
Degree of Dysfunction	 Mild (FEV 60 -75% predicted and/or on chronic inhaler/oral meds) Moderate (FEV 50-59% predicted and/or on chronic steroid) Severe (FEV < 50% predicted or RA pO2 <60 or pCO2>50) Severity not documented

Pulmonary Hypertension Definition: Indicate whether there is physician documentation of Pulmonary Hypertension as documented by:

- Right heart catheterization: mean pulmonary arterial pressure (PAP) > 25 mmHg at rest
- Echocardiographic diagnosis: PA systolic pressure (PASP) >50 mmHg
- Mean Pulmonary Artery Pressure greater than 25mmHg obtained from most recent right heart catheterization of right ventricular systolic pressure greater than 50mmHg obtained from the most recent right heart catheterization or most recent echocardiogram

Pulmonary Hypertension Intent/Clarification: High blood pressure in the arteries that supply the lungs is called pulmonary hypertension (PHT). The blood vessels that supply the lungs constrict and their walls thicken, so they cannot carry as much blood. This information may be found on a preoperative cardiac catheterization or echocardiogram. If the value is not known or documented, the data sheet should be marked accordingly.

RV systolic pressure may be used if no PA pressure is available, provided there is no pulmonary stenosis. It is preferable to use pressures measured pre-op, prior to induction of anesthesia.

A comment in a CT scan of an "enlarged pulmonary artery" suggestive of pulmonary hypertension is not adequate for this diagnosis

Pulmonary Hypertension OYes

\bigcirc No

Recent Pulmonary Embolus Defined as a pulmonary embolus occurring within 3 months of durable VAD implantation	 ○ Yes ○ No ○ Unknown
History of Atrial Arrhythmia	 ○ Yes ○ No ○ Unknown
Thoracic Aortic Disease Defined as the presence of an aortic aneurysm, previous history or current history of aortic dissection, or history of aortic ulcer.	 ○ Yes ○ No ○ Unknown
Indicate whether the patient has a history of disease of the thoracic or thoracoabdominal aorta. Abdominal aortic disease without thoracic involvement is captured in peripheral artery disease.	
Prior Sternotomy	 ○ Yes ○ No ○ Unknown
If yes, how many	ST: OUnknown
ritional/GI issues	
ritional/GI issues Severe Diabetes Defined as a Hemoglobin A1c greater than 8 mg/dl or associated with diabetic nephropathy, vasculopathy, oculopathy	 ○ Yes ○ No ○ Unknown
Severe Diabetes Defined as a Hemoglobin A1c greater than 8 mg/dl or associated with diabetic nephropathy, vasculopathy,	\bigcirc No
Severe Diabetes Defined as a Hemoglobin A1c greater than 8 mg/dl or associated with diabetic nephropathy, vasculopathy, oculopathy Malnutrition/Cachexia Weight loss greater than 5% of present body mass in 12	 ○ No ○ Unknown ○ Yes ○ No
Severe Diabetes Defined as a Hemoglobin A1c greater than 8 mg/dl or associated with diabetic nephropathy, vasculopathy, oculopathy Malnutrition/Cachexia Weight loss greater than 5% of present body mass in 12 months or less History of Gl Ulcers Liver Dysfunction Indicate whether the patient has a history of hepatitis B, hepatitis C, cirrhosis, portal hypertension, esophageal varices, chronic alcohol abuse or congestive hepatopathy. Exclude NASH in the absence of cirrhosis.	 No Unknown Yes No Unknown Yes No
Severe Diabetes Defined as a Hemoglobin A1c greater than 8 mg/dl or associated with diabetic nephropathy, vasculopathy, oculopathy Malnutrition/Cachexia Weight loss greater than 5% of present body mass in 12 months or less History of Gl Ulcers Liver Dysfunction Indicate whether the patient has a history of hepatitis B, hepatitis C, cirrhosis, portal hypertension, esophageal varices, chronic alcohol abuse or congestive hepatopathy. Exclude NASH in the absence of cirrhosis.	 No Unknown Yes No Unknown Yes No Unknown

	□ Hepatitis C
Hepatitis B Treated	 ○ Yes ○ No ○ Unknown
Hepatitis C Treated	 ○ Yes ○ No ○ Unknown
ascular issues	
Heparin Induced Thrombocytopenia	 ○ Yes ○ No ○ Unknown
Chronic Coagulopathy Heparin induced thrombocytopenia Protein C deficiency Protein S deficiency Anti-thrombin 3 deficiency DIC	 ○ Yes ○ No ○ Unknown
Cerebrovascular Disease	 ○ Yes ○ No ○ Unknown
History of Stroke Stroke is an acute episode of focal or global neurological dysfunction caused by brain, spinal cord, or retinal vascular injury as a result of hemorrhage or infarction, where the neurological dysfunction lasts for greater than 24 hours. This does not include chronic (nonvascular) neurological diseases or other acute neurological insults such as metabolic and anoxic ischemic encephalopathy.	 ○ Yes ○ No ○ Unknown
Type of Stroke	 ○ Ischemic (embolic) ○ Hemorrhagic ○ Unknown
Timing of Stroke (most recent)	 ○ Recent (within 30 days of admission (mRs > 2 or NIHSS > 15)) ○ Remote (greater than 30 days of admission) ○ Unknown
History of Transient Ischemic Attack (TIA) Defined as a transient episode of focal neurological dysfunction caused by brain, spinal cord, or retinal ischemia, without acute infarction, where the neurological dysfunction resolves within 24 hours.	 ○ Yes ○ No ○ Unknown
Asymptomatic Severe Carotid Stenosis (80% -100%)	 ○ Yes ○ No ○ Unknown

Peripheral Arterial Disease (PVD) Definition: Indicate whether the patient has a history of peripheral arterial disease (includes upper and lower extremity, renal, mesenteric, and abdominal aortic systems). This can include:

- Claudication, either with exertion or at rest
- Amputation for arterial vascular insufficiency

- Vascular reconstruction, bypass surgery, or percutaneous intervention to the extremities (excluding dialysis fistulas and vein stripping)
- Documented abdominal aortic aneurysm with or without repair
- Positive noninvasive test (e.g., ankle brachial index =< 0.9, ultrasound, magnetic resonance or computed tomography imaging of > 50% diameter stenosis in any peripheral artery, i.e., renal, subclavian, femoral, iliac) or angiographic imaging
 Peripheral arterial disease excludes disease in the carotid, cerebrovascular arteries or thoracic aorta.

PVD does not include DVT.

Peripheral Arterial Disease	 ○ Yes ○ No ○ Unknown
If yes, check all that apply	 Abdominal aortic aneurysm Upper extremity disease Lower extremity disease Mesenteric disease Renovascular disease Source not documented

Oncology/infection issues

History of Solid Organ Cancer	 ○ Yes ○ No ○ Unknown
Currently have cancer	 ○ Yes ○ No ○ Unknown
History of Solid Organ Transplantation	 ○ Yes ○ No ○ Unknown
History of Hematopoietic Cancer	 ○ Yes ○ No ○ Unknown
History Of Bone Marrow Transplant BMT	 ○ Yes ○ No ○ Unknown
HIV	 ○ Yes ○ No ○ Unknown

Psychosocial issues

Psychosocial Issues NOTE: Smoking History has been moved to this section. This section includes, substance abuse disorders along with a detailed smoking history. Please read this section thoroughly and check the boxes accordingly.	 ○ Yes ○ No ○ Unknown
If yes, check all that apply	 Depression History of Severe Depression Alcohol Abuse

	 Limited Cognition Limited Family Support Noncompliance History of Narcotic Dependence Active Illicit Drug Use History of Smoking Other Specify 	
Narcotic Dependence	 Remote use (more than 3 months ago) Recent use (within 3 months) Unknown 	
Smoking	 Remote use (more than 3 months ago) Recent use (within 3 months) Unknown 	
Alcohol Abuse	 Remote use (more than 3 months ago) Recent use (within 3 months) Unknown 	

Potential Barriers to Heart Transplant

Advanced Age	⊖ Yes
	○ No
	\bigcirc Not applicable: patient listed for transplant
Frailty	○Yes
	\bigcirc No
	OUnknown
	\bigcirc Not applicable: patient listed for transplant
	○ Yes
Patient does not want transplant By checking yes, you are confirming that the patient does	⊖ Yes ○ No
not want a heart transplant	
not want a noart tanoplant	
	○ Not applicable: patient listed for transplant
Musculoskeletal limitation to ambulation	⊖ Yes
	\bigcirc No
	OUnknown
	\bigcirc Not applicable: patient listed for transplant
Contraindication to immunosuppression	○ Yes
Contraindication to immunosuppression	
	○ Not applicable: patient listed for transplant
Allosensitization	○ Yes
	\bigcirc No
	\bigcirc Unknown

Chronic Renal Disease	 ○ Yes ○ No ○ Unknown ○ Not applicable: patient listed for transplant
Large BMI	 ○ Yes ○ No ○ Unknown ○ Not applicable: patient listed for transplant
Chronic Infectious Concerns	 ○ Yes ○ No ○ Unknown ○ Not applicable: patient listed for transplant

Medications

Currently using - At the time of VAD placement.

Known previous use within the past year - Is intended to capture the adequacy of medical therapy prior to determining heart failure to be refractory. For instance, ACEI, beta blockers, and diuretics are considered standard necessary therapy for heart failure but may be stopped due to hypotension or renal failure during a hospitalization for severely decompensated heart failure. If patients are known to have received these agents within the past year, please check known previous use.

No (not being used) - If there is no reason to believe that they have taken those agents, and reasonable certainty that information is accurate, check No.

Unknown - If it is not known whether the patient has taken those agents within the previous year, check Unknown.

Allopurinol	 Currently using Known previous use (within past year) No Unknown
Angiotensin receptor blocker drug	 Currently using Known previous use (within past year) No Unknown
Amiodarone	 Currently using Known previous use (within past year) No Unknown
ACE inhibitors	 Currently using Known previous use (within past year) No Unknown
Beta-blockers	 Currently using Known previous use (within past year) No Unknown
Aldosterone antagonist	 Currently using Known previous use (within past year) No Unknown
Warfarin (coumadin)	 Currently using Known previous use (within past year) No Unknown

Antiplatelet therapy drug	 Currently using Known previous use (within past year) No Unknown
ARNi (Entresto)	 ○ Yes ○ No ○ Unknown
Nitric oxide Document Flolan here	 ○ Yes ○ No ○ Unknown
Loop diuretics	 ○ Yes ○ No ○ Unknown
If yes, enter dosage Enter the total daily dose the patient received at home before hospitalization.	mg/day ST= ◯ Unknown
Type of Loop Diuretic:	 Furosemide Torsemide Bumetanide Other
Outpatient (prior to admission) inotrope infusion:	 ○ Yes ○ No ○ Unknown
If Yes, select therapy agents:	 Dobutamine Dopamine Milrinone Levosimendan Epinephrine Norepinephrine Isoproterenol Phenylephrine Vasopressin Angiotensin II Other, Specify Unknown
Is patient on Metalozone/Thiazide? within 60 days of the implant date	 ○ Yes ○ No ○ Unknown
If yes, then select (check one):	○ Regular○Intermittent
Is patient on Phosphodiesterase inhibitors? Please enter only for the indication of Pulmonary Hypertension or Right Heart Failure	 ○ Yes ○ No ○ Unknown

○ Yes○ No○ Unknown

Is patient on direct oral anticoagulants (DOACs) or novel oral anticoagulants (NOACs)?

Such as: dabigatran (Pradaxa), rivaroxaban (Xarelto), apixaban (Eliquis), edoxaban (Savaysa), and betrixaban (Bevyxxa)

Quality Of Life

QOL surveys cannot be administered after the visit date

EuroQol (EQ-5D)

Did the patient complete a EuroQol form?	 ○ Yes ○ No ○ Unknown
How was the test administered?	 Self-administered Coordinator administered Family member administered
Mobility:	 I have no problems in walking about I have some problems in walking about I am confined to bed Unknown
Self care:	 I have no problems with self-care I have some problems washing or dressing myself I am unable to wash or dress myself Unknown
Usual Activities (e.g. work, study, housework, family or leisure activities)	 I have no problems with performing my usual activities I have some problems with performing my usual activities I am unable to perform my usual activities Unknown
Pain/discomfort:	 I have no pain or discomfort I have moderate pain or discomfort I have extreme pain or discomfort Unknown
Anxiety/depression:	 I am not anxious or depressed I am moderately anxious or depressed I am extremely anxious or depressed Unknown
Patient Visual Analog Status (VAS):	(0-100) 0=Worst, 100=Best ST= ◯ Unknown
Which of the following best describes your *one* main activity?	 Actively working Retired Keeping house Student Seeking work Too sick to work (disabled)

	 Unknown Other
Is this *one* main activity considered:	○ Full time○ Part time○ Unknown
How many of your close friends or relatives do you see in person, speak to on the telephone or contact via the internet at least once a month? (please count each person 1 time)	ST= O Unknown
Have you unintentionally lost more than 10 pounds in the last year?	 ○ Yes ○ No ○ Unknown
Do you currently smoke cigarettes?	 ○ Yes ○ No ○ Unknown
If Yes, How many cigarettes are you currently smoking, on average?	 Half a pack or less per day More than half to 1 pack per day 1 to 2 packs per day 2 or more packs per day
Do you currently smoke e-cigarettes?	 ○ Yes ○ No ○ Unknown

Please enter a number from 1 to 10 for the questions below:

How much stress related to your health issues do you feel you've been under during the past month? (1-10) 1=No Stress, 10=Very Much Stress	ST= O Unknown
How well do you feel you've been coping with or handling your stress related to your health issues during the past month? (1-10) 1=Coping very poorly, 10=Coping very well	ST= O Unknown
How confident are you that you can do the tasks and activities needed to manage your heart failure so as to reduce how much having heart failure affects your everyday life? (1-10) 1=Not at all confident, 10=Totally confident	ST= O Unknown
How satisfied are you with the outcome of your therapy for heart failure during the past 3 months? (1-10) 1=Not satisfied, 10=Very satisfied	ST= O Unknown

If No, Please select a reason why the EuroQol (EQ-5D) was not completed:	\bigcirc Too sick (ex., intubated/sedated, critically ill, on short-term VAD) \bigcirc Too tired
	\bigcirc Too stressed, anxious, and/or depressed
	⊖ Can't concentrate
	\bigcirc No time/too busy
	\bigcirc Too much trouble/don't want to be bothered/not interested
	\bigcirc Unwilling to complete instrument, no reason given
	\bigcirc Unable to read English and/or illiterate
	○ Administrative (check specific reason below)
If Administrative: Select a specific	◯ Urgent/emergent implant, no time to administer QOL instruments
reason:	\bigcirc Coordinator too busy or forgot to administer QOL instruments
	\bigcirc Unable to contact patient (ie., not hospitalized or no clinic visit) within the
	window for QOL instrument completion
	\bigcirc Other reason (describe)

Kansas City Cardiomyopathy Questionnaire

Did the patient complete a KCCQ form?	○ Yes○ No
How was the test administered?	 Self-administered Coordinator administered Family member administered

Heart Failure affects different people in different ways. Some feel shortness of breath while others feel fatigue. Please indicate how much you are limited by heart failure (shortness of breath or fatigue) in your ability to do the following activities over the past 2 weeks.

Showering/Bathing	 Extremely limited Quite a bit limited Moderately limited Slightly limited Not at all limited Limited for other reasons or did not do the activity Unknown
Walking 1 block on level ground	 Extremely limited Quite a bit limited Moderately limited Slightly limited Not at all limited Limited for other reasons or did not do the activity Unknown
Hurrying or jogging (as if to catch a bus)	 Extremely limited Quite a bit limited Moderately limited Slightly limited Not at all limited Limited for other reasons or did not do the activity Unknown

Over the past 2 weeks, how many times did you have swelling in your feet, ankles or legs when you woke up in the morning?	 Every morning 3 or more times a week, but not every day 1-2 times a week Less than once a week Never over the past 2 weeks Unknown
Over the past 2 weeks, on average, how many times has fatigue limited your ability to do what you want?	 All of the time Several times per day At least once a day 3 or more times per week but not every day 1-2 times per week Less than once a week Never over the past 2 weeks Unknown
Over the past 2 weeks, on average, how many times has shortness of breath limited your ability to do what you wanted?	 All of the time Several times per day At least once a day 3 or more times per week but not every day 1-2 times per week Less than once a week Never over the past 2 weeks Unknown
Over the past 2 weeks, on average, how many times have you been forced to sleep sitting up in a chair or with at least 3 pillows to prop you up because of shortness of breath?	 Every night 3 or more times a week, but not every day 1-2 times a week Less than once a week Never over the past 2 weeks Unknown
Over the past 2 weeks, how much has your heart failure limited your enjoyment of life?	 It has extremely limited my enjoyment of life It has limited my enjoyment of life quite a bit It has moderately limited my enjoyment of life It has slightly limited my enjoyment of life It has not limited my enjoyment of life at all Unknown
If you had to spend the rest of your life with your heart failure the way it is right now, how would you feel about this?	 Not at all satisfied Mostly dissatisfied Somewhat satisfied Mostly satisfied Completely satisfied Unknown

How much does your heart failure affect your lifestyle? Please indiciate how your heart failure may have limited your participation in the following activites over the past 2 weeks?

Hobbies, recreational activities	 Severely limited Limited quite a bit Moderately limited Slightly limited Did not limit at all Does not apply or did not do for other reasons Unknown
Working or doing household chores	 Severely limited Limited quite a bit Moderately limited Slightly limited Did not limit at all Does not apply or did not do for other reasons Unknown
Visiting family or friends out of your home	 Severely limited Limited quite a bit Moderately limited Slightly limited Did not limit at all Does not apply or did not do for other reasons Unknown
If No, Please select a reason why the KCCQ was not completed:	 Too sick (ex., intubated/sedated, critically ill, on short-term VAD) Too tired Too stressed, anxious, and/or depressed Can't concentrate No time / too busy Too much trouble / don't want to be bothered / not interested Unwilling to complete instrument, no reason given Unable to read English and/or illiterate Administrative (check specific reason below)
If Administrative: Select a specific reason:	 Urgent/emergent implant, no time to administer QOL instruments Coordinator too busy or forgot to administer QOL instruments Unable to contact patient (ie., not hospitalized or no clinic visit) within the window for QOL instrument completion Other reason (describe)

Exercise Function and Trailmaking Data

utes. They are advised that they r indue influence on the pace. The	to walk possible to avoid frequent turns. Patients are instructed to may stop if necessary during the 6 minutes. The staff distance covered during the 6 minutes in feet will be t speed test listed below (please see instructions for
 Not done: other Not done: patient refused for the second sec	possible to avoid frequent turns. Patients are instructed to may stop if necessary during the 6 minutes. The staff distance covered during the 6 minutes in feet will be
Unknown neasured, preferably as long as p utes. They are advised that they r indue influence on the pace. The	possible to avoid frequent turns. Patients are instructed to may stop if necessary during the 6 minutes. The staff distance covered during the 6 minutes in feet will be
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	seconds
ST= 〇 Not done: too sick	
	to walk
ST- O Not dono: too sick	mL/kg/min
ST= \bigcirc Not done: too sick	
○ Not done: other	
⊖ Unknown	
	ygen consumed during symptom-limited exercise testing an for the treadmill, but it is assumed that most siest to standardize.
	%
ST= ◯ Unknown ◯ Not done	%
⊖ Not done	% n, and is used as an index of how vigorously the patient
○ Not done on divided by oxygen consumption	
Not done In divided by oxygen consumption an adequate effort.	n, and is used as an index of how vigorously the patient
 Not done n divided by oxygen consumption adequate effort. Completed 	n, and is used as an index of how vigorously the patient
 Not done n divided by oxygen consumption a adequate effort. Completed Attempted but not completed 	n, and is used as an index of how vigorously the patient
 Not done Not done adequate effort. Completed Attempted but not complete Not attempted 	n, and is used as an index of how vigorously the patient
 Not done Not done adequate effort. Completed Attempted but not complete Not attempted 	n, and is used as an index of how vigorously the patient
	 Not done: other Not done: patient refused Unknown k the first 15 feet of the 6 minute with the first footfall at 15 feet in the first footfall at 15 feet in the speed test. ST= O Not done: too sick Not done: other Unknown mL/kg/min) is the ml/kg/min of ox e are usually 1-2 ml/min lower that

NYHA Class

New York Heart Association Class for heart failure

○ Class I: No limitation of physical activity; physical activity does not cause fatigue, palpitation or shortness of breath.

 \bigcirc Class II: Slight limitation of physical activity; comfortable at rest, but ordinary physical activity results in fatigue, palpitations or shortness of breath.

 ○ Class III: Marked limitation of physical activity; comfortable at rest, but less than ordinary activity causes fatigue, palpitation or shortness of breath.
 ○ Class IV: Unable to carry on minimal physical activity without discomfort; symptoms may be present at rest.

◯ Unknown