

PreImplant - InterMACs

PreImplant Status

Demographics

Height in
 cm
 ST= Unknown
 Not Done

Weight lbs
 kg
 ST= Unknown
 Not Done

Blood Type O
 A
 B
 AB
 Unknown

Medical Support Status

Current Device Strategy at time of implant

- Bridge to Recovery
- Rescue Therapy
- Bridge to Transplant (patient currently listed for transplant)
- Possible Bridge to Transplant - Likely to be eligible
- Possible Bridge to Transplant - Moderate likelihood of becoming eligible
- Possible Bridge to Transplant - Unlikely to become eligible
- Destination Therapy (patient definitely not eligible for transplant)
- Other, specify

List Date for Transplant
 ST= Unknown

Current ICD device in place? Yes
 No
 Unknown

Time since first cardiac diagnosis

- < 1 month
- 1 month - 1 year
- 1-2 years
- > 2 years
- Unknown

Number of cardiac hospitalizations in the last 12 months

- 0-1
- 2-3
- 4 or more
- Unknown

Cardiac diagnosis / Primary

- Cancer
- Congenital Heart Disease: Biventricular: CAVC/VSD/ASD
- Congenital Heart Disease: Biventricular: Congenitally Corrected Transposition (l-TGA) (CC-TGA)
- Congenital Heart Disease: Biventricular: Ebstein's Anomaly
- Congenital Heart Disease: Biventricular: Kawasaki Disease
- Congenital Heart Disease: Biventricular: Left Heart Valve/Structural Hypoplasia
- Congenital Heart Disease: Biventricular: TOF/TOF Variant
- Congenital Heart Disease: Biventricular: Transposition of the Great Arteries (d-TGA)
- Congenital Heart Disease: Biventricular: Truncus Arteriosus
- Congenital Heart Disease: Single Ventricle: Heterotaxy / Complex CAVC
- Congenital Heart Disease: Single Ventricle: Hypoplastic Left Heart
- Congenital Heart Disease: Single Ventricle: Other
- Congenital Heart Disease: Single Ventricle: Pulmonary Artesia with IVS
- Congenital Heart Disease: Single Ventricle: Pulmonary Artesia with IVS (RVDC)
- Congenital Heart Disease: Single Ventricle: Unspecified
- Coronary Artery Disease
- Dilated Myopathy: Adriamycin
- Dilated Myopathy: Alcoholic
- Dilated Myopathy: Familial
- Dilated Myopathy: Idiopathic
- Dilated Myopathy: Ischemic
- Dilated Myopathy: Myocarditis
- Dilated Myopathy: Other, Specify
- Dilated Myopathy: Post Partum
- Dilated Myopathy: Viral
- Hypertrophic Cardiomyopathy
- Restrictive Myopathy: Amyloidosis
- Restrictive Myopathy: Endocardial Fibrosis
- Restrictive Myopathy: Idiopathic
- Restrictive Myopathy: Other, specify
- Restrictive Myopathy: Sarcoidosis
- Restrictive Myopathy: Sec to Radiation/Chemotherapy
- Valvular Heart Disease
- Unknown
- None

Dilated Myopathy: Other, Specify:

Restrictive Myopathy: Other, Specify:

Congenital Heart Disease: Single Ventricle: Other, Specify:

Cardiac diagnosis / Secondary

- Cancer
- Congenital Heart Disease: Biventricular: CAVC/VSD/ASD
- Congenital Heart Disease: Biventricular: Congenitally Corrected Transposition (l-TGA) (CC-TGA)
- Congenital Heart Disease: Biventricular: Ebstein's Anomaly
- Congenital Heart Disease: Biventricular: Kawasaki Disease
- Congenital Heart Disease: Biventricular: Left Heart Valve/Structural Hypoplasia
- Congenital Heart Disease: Biventricular: TOF/TOF Variant
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- Congenital Heart Disease: Single Ventricle: Hypoplastic Left Heart
- Congenital Heart Disease: Single Ventricle: Other
- Congenital Heart Disease: Single Ventricle: Pulmonary Artesia with IVS
- Congenital Heart Disease: Single Ventricle: Pulmonary Artesia with IVS (RVDC)
- Congenital Heart Disease: Single Ventricle: Unspecified
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- Dilated Myopathy: Adriamycin
- Dilated Myopathy: Alcoholic
- Dilated Myopathy: Familial
- Dilated Myopathy: Idiopathic
- Dilated Myopathy: Ischemic
- Dilated Myopathy: Myocarditis
- Dilated Myopathy: Other, Specify
- Dilated Myopathy: Post Partum
- Dilated Myopathy: Viral
- Hypertrophic Cardiomyopathy
- Restrictive Myopathy: Amyloidosis
- Restrictive Myopathy: Endocardial Fibrosis
- Restrictive Myopathy: Idiopathic
- Restrictive Myopathy: Other, specify
- Restrictive Myopathy: Sarcoidosis
- Restrictive Myopathy: Sec to Radiation/Chemotherapy
- Valvular Heart Disease
- Unknown
- None

Dilated Myopathy: Other, Specify:

Restrictive Myopathy: Other, Specify:

Congenital Heart Disease: Single Ventricle: Other, Specify:

Known Cardiac biopsy

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

Previous cardiac operation

- None
- CABG
- Aneurysmectomy (DOR)
- Aortic Valve replacement / repair
- Mitral valve replacement / repair
- Tricuspid replacement /repair
- Congenital cardiac surgery
- LVAD
- RVAD
- TAH
- Previous heart transplant
- Previous ECMO
- Other, specify (INCLUDE ONLY OPERATIONS ACTUALLY PERFORMED ON HEART OR GREAT VESSELS)

**Congenital cardiac surgery,
Check all that apply**

- Congenitally Corrected Transposition Repair (double switch)
- Congenitally Corrected Transposition Repair (classic)
- PA Banding
- TOF/DORV/RVOTO Repair
- Ebstein's Anomaly Repair
- VSD Repair
- Norwood Stage I
- Glenn, Bi-directional
- Glenn, Classical
- Fontan Procedure
- d- Transposition of the Great Vessels Repair – arterial switch operation
- d- Transposition of the Great Vessels Repair – atrial switch (Senning/Mustard)
- Truncus Arteriosus Repair
- Complete AV Septal Defect Repair
- AP Shunt
- ASD Repair
- Damus Kaye Stansel (DKS)
- Other, specify

**Admitting Diagnosis or Planned
Implant**

- Heart failure
- Cardiac surgery
- Non-cardiac medical problem
- VAD Placement
- TAH Placement
- Other cardiology
- Acute MI
- Non-cardiac surgery
- Unknown

**Clinical Events and Interventions
this hospitalization (Pre-implant)**

- Cardiac arrest
- Dialysis
- Intubation
- Major MI
- Cardiac surgery, other
- Positive blood cultures
- Other surgical procedures
- Major Infections
- Unknown
- None
- IABP
- Ultrafiltration
- Ventilator
- Feeding tube
- ECMO
- CABG
- Aortic Valve replacement / repair
- Mitral valve replacement / repair
- Congenital cardiac surgery
- LVAD
- RVAD
- TAH
- Aneurysmectomy (DOR)

Select Type of infection:

- Bacterial
- Fungal
- Viral
- Protozoan
- Unknown

Select Location of infection:

- Blood
- Endocarditis, native
- Line Sepsis
- Mediastinum
- Pneumonia
- Urine
- Unknown
- Other

**Congenital cardiac surgery,
Select all that apply:**

- Congenitally Corrected Transposition Repair (double switch)
- Congenitally Corrected Transposition Repair (classic)
- PA Banding
- TOF/DORV/RVOTO Repair
- Ebstein's Anomaly Repair
- VSD Repair
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- Truncus Arteriosus Repair
- Complete AV Septal Defect Repair
- AP Shunt
- ASD Repair
- Damus Kaye Stansel (DKS)
- Other, specify

**IV inotrope therapy within 48 hours
of implant**

- Yes
- No
- Unknown

If Yes, IV inotrope therapy agents:

- Dobutamine
- Dopamine
- Milrinone
- Levosimendan
- Epinephrine
- Norepinephrine
- Isoproterenol
- Other, Specify
- Unknown

**Interventions within 48 hours of
implant**

- IABP
- Dialysis
- Ultrafiltration
- Ventilator
- Feeding tube
- ECMO
- None
- CABG
- Aortic Valve replacement / repair
- Mitral valve replacement / repair
- Congenital card surg
- LVAD
- RVAD
- TAH
- Aneurysmectomy (DOR)

**Congenital Cardiac Surgery
Select all that Apply:**

- Congenitally Corrected Transposition Repair (double switch)
- Congenitally Corrected Transposition Repair (classic)
- PA Banding
- TOF/DORV/RVOTO Repair
- Ebstein's Anomaly Repair
- VSD Repair
- Norwood Stage I
- Glenn, Bi-directional
- Glenn, Classical
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- Complete AV Septal Defect Repair
- AP Shunt
- ASD Repair
- Damus Kaye Stansel (DKS)
- Other, specify

**Is this implant the primary MCSD
(LVAD or TAH) for this patient?**

- Yes
- No

**INTERMACS® Patient Profile at time
of implant**

- 1 "Critical cardiogenic shock" describes a patient who is "crashing and burning", in which a patient has life-threatening hypotension and rapidly 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)
- 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)

MODIFIERS of the INTERMACS® Patient Profiles

A - Arrhythmia.

- Yes
- No
- Unknown

**TCS –Temporary Circulatory
Support.**

- Yes
- No
- Unknown

FF – Frequent Flyer Home.

- Yes
- No
- Unknown

FF – Frequent Flyer.

- Yes
- No
- Unknown

PreImplant - Intermacs

Hemodynamics

General Hemodynamics

Heart rate beats per min

ST= Unknown

Not done

Systolic blood pressure mmHg

ST= Unknown

Not done

Diastolic blood pressure mmHg

ST= Unknown

Not done

Doppler Opening Pressure

ST= Unknown

Not done

Not applicable

Peripheral edema

Yes

No

Unknown

Ascites

Yes

No

Unknown

ECG rhythm

Sinus

Atrial fibrillation

Atrial Flutter

Paced: Atrial pacing

Paced: Ventricular pacing

Paced: Atrial and ventricular pacing

Not done

Unknown

Other, specify

Echo Findings

Mitral regurgitation

0 (none)

1 (mild)

2 (moderate)

3 (severe)

Not Recorded or Not Documented

- Tricuspid regurgitation**
- 0 (none)
 - 1 (mild)
 - 2 (moderate)
 - 3 (severe)
 - Not Recorded or Not Documented

- Aortic regurgitation**
- 0 (none)
 - 1 (mild)
 - 2 (moderate)
 - 3 (severe)
 - Not Recorded or Not Documented

- LVEF**
- > 50 (normal)
 - 40-49 (mild)
 - 30-39 (moderate)
 - 20-29 (moderate/severe)
 - < 20 (severe)
 - Not Recorded or Not Documented
 - Unknown

If a number or range is available, check the number range that best applies. For example, a reported ejection fraction of 30-35 would be entered as 30-40. Occasionally the LVEF may be described only as "left ventricular function" or "systolic function" in words. "Mild impairment, mildly reduced, or mild decrease" would all be characterized as "mild".

LVEDD cm
 ST= Not Recorded or Not Documented

- RVEF**
- Normal
 - Mild
 - Moderate
 - Severe
 - Not Done
 - Not Applicable
 - Unknown

RV Function is generally NOT measured in numbers, as it is difficult to quantify. It may be described as "right ventricular function" or "right ventricular contractility". "Mild impairment, mildly reduced, or mild decrease" would all be characterized as "mild". Again, mild-moderate would be recorded as moderate, and moderate-severe would be recorded as "severe".

Swan Hemodynamics

Pulmonary artery systolic pressure mmHg
 ST= Unknown
 Not done

Pulmonary artery diastolic pressure mmHg
 ST= Unknown
 Not done

Mean Pulmonary artery wedge pressure mmHg
 ST= Unknown

Not done

Mean RA Pressure

mmHg

ST= Unknown

Not done

Central venous pressure (CVP)

mmHg

ST= Unknown

Not done

Cardiac Index

L/min/M2 (by Swan)

ST= Unknown

Not done

Was Cardiac Index Measured by Fick or Thermodilution?

Yes

No

Unknown

Choose Method

Fick

Thermodilution

Cardiac output

L/min

ST= Unknown

Not done

Was Cardiac Output Measured by Fick or Thermodilution?

Yes

No

Unknown

Choose Method

Fick

Thermodilution

Prelimplant - InterMACs

Laboratory

Sodium mEq/L
 mmol/L
 ST= Unknown
 Not done

Potassium mEq/L
 mmol/L
 ST= Unknown
 Not done

Blood urea nitrogen mg/dL
 mmol/L
 ST= Unknown
 Not done

Creatinine mg/dL
 umol/L
 ST= Unknown
 Not done

SGPT/ALT (alanine aminotransferase/ALT) u/L
 ST= Unknown
 Not done

SGOT/AST (aspartate aminotransferase/AST) u/L
 ST= Unknown
 Not done

LDH units/L, U/L, ukat/L
 ST= Unknown
 Not done

Total bilirubin mg/dL
 umol/L
 ST= Unknown
 Not done

Albumin g/dL
 g/L
 ST= Unknown
 Not done

Pre-albumin mg/dL
 mg/L
ST= Unknown
 Not done

Total Cholesterol mg/dL
 mmol/L
ST= < 50 mg/dL
 Unknown
 Not done

Brain natriuretic peptide BNP pg/mL
 ng/L
ST= > 7500 pg/mL
 Unknown
 Not done

NT pro brain natriuretic peptide Pro-BNP pg/mL
 ng/L
ST= Unknown
 Not done

White blood cell count x10³/uL
 x10⁹/L
ST= Unknown
 Not done

Hemoglobin g/dL
 g/L
 mmol/L
ST= Unknown
 Not done

Hemoglobin A1C %
 mmol/mol

Estimated Average Glucose (eAG): mg/dL
 mmol/L
ST= Unknown
 Not Done

Platelets x10³/uL
 x10⁹/L
ST= Unknown
 Not done

INR international units

ST= Unknown
 Not done

**Sensitivity CRP
(C Reactive Protein)** mg/L

ST= Unknown
 Not done

Lupus Anticoagulant Positive
 Negative
 Unknown

Uric acid mg/dL

umol/L

ST= <1 mg/dL
 Unknown
 Not done

Lymphocyte Count %

x10³ cells/ μ L

x10⁹ cells/liter

ST= Unknown
 Not done

PreImplant - Intermacs

Concerns and Contraindications

Concerns / Contraindications	Is condition present?		Limitation for transplant listing?		
	Yes	No	Yes	No	
Overall Status					
Advanced age	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Frailty	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Patient does not want transplant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Musculoskeletal limitation to ambulation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Contraindication to immunosuppression	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Allosensitization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Chronic Renal Disease	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Cardiothoracic issues	Yes	No	Yes	No	
Frequent ICD Shocks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Pulmonary Disease	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Pulmonary Hypertension	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Recent Pulmonary Embolus	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
History Of Atrial Arrhythmia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Unfavorable Mediastinal Anatomy (includes sternotomies, sternal resection, radiation, flail chest, etc)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Thoracic Aortic Disease	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Nutritional/GI	Yes	No	Yes	No	
Large BMI	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Severe Diabetes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Malnutrition Cachexia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
History Of GI Ulcers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
History Of Hepatitis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Liver Dysfunction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Vascular issues	Yes	No	Yes	No	
Heparin Induced Thrombocytopenia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Chronic Coagulopathy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Major Stroke	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other Cerebrovascular Disease	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Peripheral Vascular Disease	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Oncology/infection issues	Yes	No	Unknown	Yes	No

History Of Solid Organ Cancer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
History Of Lymphoma Leukemia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
History Of Bone Marrow Transplant BMT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
History Of HIV	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Chronic Infectious Concerns	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Psychosocial issues	Yes	No	Yes	No
Limited Cognition/Understanding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Limited Social Support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Repeated Noncompliance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
History Of Illicit Drug Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
History Of Alcohol Abuse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Narcotic Dependence	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
History Of Smoking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Currently Smoking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Severe Depression	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other Major Psychiatric Diagnosis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other Comorbidity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

HIV History

HIV Diagnosis Date

ST= Unknown
 Not Done

Plasma HIV-1 RNA (Viral load) - Closest to implant

 copies/ml

ST= Not Done

CD4 T-Cell Count - Closest to implant

 cells/mm3

ST= Not Done

Erythrocyte Sedimentation Rate (ESR)

 mm/hr

ST= Not Done

C-Reactive Protein (CRP)

 mg/L

ST= Not Done

Antiretroviral Therapy

- Abacavir (ABC) / Ziagen
- Atripla (FTC/EDV/TDF)
- Atazanavir (ATV) / Reyataz
- Combivir (3TC/ZDV)
- Complera (FTC/RPV/TDF)
- Darunavir (DRV) / Prezista
- Delavirdine (DLV) / Rescriptor
- Didanosine (ddl) / Videx EC
- Dolutegravir / Tivicay
- Efavirenz (EFV) / Sustiva

- Emtricitabine (FTC) / Emtriva
- Enfuvirtide (T20) / Fuzeon
- Epzicom (3TC/ABC)
- Etravirine (ETR) / Intelence
- Fosamprenavir (FPV) / Lexiva
- Indinavir (IDV) / Crixivan
- Kaletra (LPV/r)
- Lamivudine (3TC) / EpiVir
- Maraviroc (MVC) / Selzentry
- Nelfinavir (NFV) / Viracept
- Nevirapine (NVP) / Viramune / Viramune XR
- Raltegravir (RAL) / Isentress
- Rilpivirine (RPV) / Edurant
- Ritonavir (RTV) / Norvir
- Saquinavir (SQV) / Invirase
- Stavudine (d4T) / Zerit
- Stribild (FTC/EVG/COBI/TDF)
- Tenofovir Disoproxil Fumarate (TDF) / Viread
- Tipranavir (TPV) / Aptivus
- Trizivir (3TC/ZDV/ABC)
- Truvada (FTC/TDF)
- Zidovudine (ZDV) / Retrovir
- Unknown
- None

Infection Prophylaxis

- Atovaquone
- Azithromycin
- Dapsone
- Fluconazole
- Pentamidine, aerosolized
- Trimethoprim-sulfamethoxazole (TMP-SMX)
- Unknown
- None

History of Opportunistic Infection

- Cryptococcosis
- Cytomegalovirus (CMV)
- Epstein Barr virus (EBV)
- Esophageal candidiasis
- Histoplasmosis
- Kaposi's sarcoma
- Mycobacterium avium complex (MAC), disseminated
- Pneumocystis jiroveci (carinii) pneumonia (PCP)
- Toxoplasmosis
- Tuberculosis
- None

History of Hepatitis B

- Positive
- Negative

- ST= Unknown
- Not Done

History of Hepatitis C

- Positive
- Negative

- ST= Unknown
- Not Done

PreImplant - InterMACs

Medications

- 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

- Nesiritide**
- Yes
 - No
 - Unknown

- Nitric oxide**
- Yes

- No
- Unknown

Loop diuretics

- Yes
- No
- Unknown

If yes, enter dosage

 mg/day

ST= Unknown

Type of Loop Diuretic:

- Furosemide
- Torsemide
- Bumetanide
- Other

Outpatient (prior to admission) inotrope infusion:

- Yes
- No
- Unknown

Cardiac Resynchronization Therapy (CRT)

- Yes
- No
- Unknown

Is patient on Metalozone/Thiazide?

- Yes
- No
- Unknown

If yes, then select (check one):

- Regular
- Intermittent

Is patient on Phosphodiesterase inhibitors?

- Yes
- No
- Unknown

PreImplant - InterMACs

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= 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?

ST= Unknown

How well do you feel you've been coping with or handling your stress related to your health issues during the past month?

ST= 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?

ST= Unknown

How satisfied are you with the outcome of your therapy for heart failure during the past 3 months?

ST= Unknown

If No, Please select a reason why the EuroQol (EQ-5D) 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)

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 indicate how your heart failure may have limited your participation in the following activities 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
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- Other reason (describe)

PreImplant - InterMACs

Exercise Function and Trailmaking Data

6 minute walk feet

ST= Not done: too sick

Not done: other

Unknown

This requires an inside hall for which distances (in FEET) should be measured, preferably as long as possible to avoid frequent turns. Patients are instructed to walk steadily to cover as much distance as possible during the 6 minutes. They are advised that they may stop if necessary during the 6 minutes. The staff member performing the test should walk behind the patient to avoid undue influence on the pace. The distance covered during the 6 minutes in feet will be recorded here. **NOTE: You may use the time from the first 15 feet of the 6minute walk for the Gait speed test listed below (please see instructions for the gait speed test below.)**

Gait Speed (1st 15 foot walk) seconds

ST= Not done: too sick

Not done: other

Unknown

Instructions: Record the time (seconds) required for the patient to walk the first 15 feet of the 6 minute walk. The "starting" line and the 15 foot line should be clearly marked. Record the time to the first footfall at 0 feet and ends with the first footfall at 15 feet in the nearest. 0.1 sec with a stopwatch. **NOTE: You may use the time from the first 15 feet of the 6 minute walk for the Gait speed test.**

Peak VO2 Max mL/kg/min

ST= Not done: too sick

Not done: other

Unknown

Maximum volume of oxygen the body can consume during exercise (mL/kg/min) is the ml/kg/min of oxygen consumed during symptom-limited exercise testing either on a bicycle or treadmill. The values recorded during the bicycle are usually 1-2 ml/min lower than for the treadmill, but it is assumed that most institutions will use only one instrument. If both are available, the bicycle is preferable as the mode easiest to standardize.

R Value at peak %

ST= Unknown

Not done

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.

Trailmaking

Status:

Completed

Attempted but not completed

Not attempted

Completed but invalid (scores not entered)

Time: seconds

Medical Condition

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

- 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