ollowup Status			
Select one of the following	<ul> <li>Inpatient</li> <li>Outpatient</li> <li>Other Facility</li> <li>Unable to obtain follow-up information</li> </ul>		
Follow-up date			
Facility Type	<ul> <li>Nursing Home/Assisted Care</li> <li>Hospice</li> <li>Another hospital</li> <li>Rehabilitation Facility</li> <li>Unknown</li> </ul>		
State reason why you are unable to obtain follow-up information	<ul> <li>Patient didn't come to clinic</li> <li>Not able to contact patient</li> <li>Not addressed by site</li> </ul>		
Was patient intubated since implant? (This includes all time since last follow-up.)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>		
Was patient on dialysis since implant? (This includes all time since last follow-up.)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>		
Pump Change			
Pump Exchange Pump Exchange Reason	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Thrombus not associated with hemolysis</li> </ul>		
	<ul> <li>Change in hemodynamics</li> <li>Clinical status</li> <li>Device parameters (please enter Device Malfunction Form)</li> <li>Upsizing device because of patient growth status</li> </ul>		
Was there a Console Change? (For TAH or Berlin Heart Consoles)	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>		
Date of console change	ST= OUnknown		
Original Console Name			

New Console Name	
Medical Condition	
NYHA Class	<ul> <li>Class I: No limitation of physical activity; physical activity does not cause fatigue, palpitation or shortness of breath.</li> <li>Class II: Slight limitation of physical activity; comfortable at rest, but ordinary physical activity results in fatigue, palpitations or shortness of breath.</li> <li>Class III: Marked limitation of physical activity; comfortable at rest, but less than ordinary activity causes fatigue, palpitation or shortness of breath.</li> <li>Class IV: Unable to carry on minimal physical activity without discomfort; symptoms may be present at rest.</li> <li>Unknown</li> </ul>
ZONES	
Hemolysis Zone	
Please enter the peak Plasma-free hemoglobin (PFH) since the last visit:	ST= Unknown Not Done
What is your hospital's upper limit of the normal range of peak PFH?	ST= OUnknown Not Done
Please enter the peak serum lactate dehydrogenase (LDH) since the last visit:	ST= OUnknown Not Done
What is your hospital's upper limit of the normal range of LDH?	ST= Unknown Not Done
Enter the Maximum and Minimum HCT o	r HGB since the last visit.
Min. HCT:	ST= OUnknown Not Done
Max. HCT:	ST= OUnknown Not Done
Min. HGB:	ST= OUnknown Not Done

1 Month Followup - Status

Max. HGB:	
	ST= OUnknown
	Not Done
Highest Total Pilizubin since the last	
Highest Total Bilirubin since the last visit:	
	ST= 🔍 Unknown
	Not Done
Has the following been present at any tip Physical Findings:	me since the last visit?
Hemoglobinuria (Tea-Colored	• Yes
Urine)?	No
	Unknown
Pump malfunction and/or abnormal	• Yes
pump parameters?	<ul><li>No</li></ul>
	<ul> <li>Unknown</li> </ul>
	Unknown
Right Heart Failure Zone	
Clinical Findings – Since the last visit.	
CVP or RAP > 16 mmHg?	• Yes
	No
	Unknown
	Not Done
	_
Dilated Vena Cava with absence of	○ Yes
Inspiratory Variation by Echo (If absence of Inspiratory Variation is	O No
not documented, Check No)?	Unknown
	Not Done
Clinical findings of elevated jugular	No.
venous distension at least half way	<ul> <li>Yes</li> <li>No</li> </ul>
up the neck in an upright patient (If	
≥ 6 cm, Check Yes)?	Unknown
	_
Peripheral Edema (If ≥ 2, Check	• Yes
Yes)?	O No
	Unknown
Accide-2	N/a a
Ascites?	
	○ No
	Unknown
Has the patient been on Inotropes	• Yes
since the last visit?	No
	Unknown

If yes, select all that apply:	<ul> <li>Dopamine</li> <li>Dobutamine</li> <li>Milrinone</li> <li>Isoproterenol</li> <li>Epinephrine</li> <li>Norepinephrine</li> <li>Levosimendan</li> <li>Unknown</li> </ul>
Nesiritide?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Did the patient have an RVAD implanted since the last follow-up?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Has the patient experienced a Neurological Event since time of implant?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
If yes, you may enter either the Modified	d Rankin Scale and/or the NIH Stroke Scale.
Modified Rankin Scale	<ul> <li>0 - No symptoms at all</li> <li>1 - No Significant disability: despite symptoms: able to carry out all usual duties and activities</li> <li>2 - Slight disability: unable to carry out all previous activities but able to look after own affairs without assistance</li> <li>3 - Moderate disability: requiring some help, but able to walk without assistance.</li> <li>4 - Moderately severe disability: unable to walk without assistance, and unable to attend to own bodily needs without assistance.</li> <li>5 - Severe disability: bedridden, incontinent and requiring constant nursing care and attention.</li> <li>6 - Dead</li> </ul>
	O Not Done
NIH Stroke Scale	<ul> <li>0: No Stroke</li> <li>1-4: Minor Stroke</li> <li>5-15: Moderate Stroke</li> <li>16-20: Moderate to Severe Stroke</li> <li>21-42: Severe Stroke</li> </ul>
	ST= ONOT Documented Not Done

emodynamics			
General Hemodynamics			
Heart rate		beats per min	
	ST= OUnknown		
	Not done		
Systolic blood pressure		mmHg	
, i	ST= OUnknown		
	Not done		
Diastolic blood pressure		mmHg	
	ST= OUnknown		
	<ul> <li>Not done</li> </ul>		
Doppler Opening Pressure			
	ST= OUnknown		
	Not done		
	Not applicable		
ECG rhythm	Sinus		
	Atrial fibrillation		
	Atrial Flutter		
	Paced: Atrial pacing     Deced: Ventriaulan ne	in a	
	<ul> <li>Paced: Ventricular pacing</li> <li>Paced: Atrial and ventricular pacing</li> </ul>		
	<ul> <li>Not done</li> </ul>		
	Unknown		
	Other, specify		
Weight		lbs	
		kg	
	ST= OUnknown		
	Not done		
Echo Findings			
Mitral regurgitation	0 (none)		
	□ 1 (mild)		
	2 (moderate)		
	<ul> <li>3 (severe)</li> <li>Not Recorded or Not</li> </ul>	Desumented	
	Not Recorded or Not	Jocumentea	
Tricuspid regurgitation	0 (none)		
	1 (mild)		

	<ul> <li>2 (moderate)</li> <li>3 (severe)</li> <li>Not Recorded or No</li> </ul>	ot Documented
Aortic regurgitation	<ul> <li>0 (none)</li> <li>1 (mild)</li> <li>2 (moderate)</li> <li>3 (severe)</li> <li>Not Recorded or Not Documented</li> </ul>	
LVEF	<ul> <li>&gt; 50 (normal)</li> <li>40-49 (mild)</li> <li>30-39 (moderate)</li> <li>20-29 (moderate/severe)</li> <li>&lt; 20 (severe)</li> <li>Not Recorded or Not Documented</li> <li>Unknown</li> </ul>	
	only as "left ventricular function" o	cample, a reported ejection fraction of 30-35 would be entered as or "systolic function" in words. "Mild impairment, mildly reduced,
LVEDD	ST=  Not Recorded of	cm or Not Documented
		nay be described as "right ventricular function" or "right all be characterized as "mild". Again, mild-moderate would be
recorded as moderate, and moderate-severe wou		
Pulmonary artery systolic pressure	ST= OUnknown Not done	mmHg
Pulmonary artery diastolic pressure	ST= OUnknown Not done	mmHg
Mean RA Pressure	ST= OUnknown	mmHg

Central venous pressure (CVP)	ST= OUnknown	mmHg
	Not done	
Mean Pulmonary artery wedge pressure		mmHg
•	ST= OUnknown	
	Not done	
Cardiac Index		L/min/M <sup>2</sup> (by Swan)
	ST= 🔍 Unknown	
	Not done	
Was Cardiac Index Measured by	Yes	
Fick or Thermodilution?	No	
	Unknown	
Choose Method	Fick	
	Thermodilution	
Cardiac output		Liters/min
	ST= OUnknown	
	Not done	
Was Cardiac Output Measured by	Yes	
Fick or Thermodilution?	No	
	Unknown	
Choose Method	Fick	
	Thermodilution	

### Medications

dications	
Hydralazine	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Calcium channel blockers	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Angiotensin receptor blocker drug	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Amiodarone	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
ACE inhibitors	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Thrombolytic	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Beta-blockers	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Aldosterone antagonist	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Low molecular weight heparin (Lovenox, Fragmin, Innohep)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
UFH: Unfractionated Heparin	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Warfarin (coumadin)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Arixtra (fondaparinux)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>

Antiplatelet therapy drug	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Select drug(s)	<ul> <li>Aspirin</li> <li>Dextran</li> <li>Dipyridamole</li> <li>Clopidogrel</li> <li>Ticlopidine</li> <li>Unknown</li> <li>Other, specify</li> </ul>	
Nitric oxide	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Phosphodiesterase inhibitor	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Digoxin	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Loop diuretics	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
If yes, enter dosage:	ST= OUnknown	mg/day
Type of Loop Diuretic:	<ul><li>Furosemide</li><li>Torsemide</li><li>Bumetanide</li><li>Other</li></ul>	

0		
Sodium		mEq/L
		mmol/L
	ST= OUnknown	
	Not done	
Potassium		mEq/L
		mmol/L
	ST= OUnknown	
	Not done	
Blood urea nitrogen		mg/dL
		mmol/L
	ST= OUnknown	]
	Not done	
Creatinine		mg/dL
		umol/L
	ST= OUnknown	
	Not done	
SGPT/ALT (alanine		u/L
aminotransferase/ALT)	ST= OUnknown	
	Not done	
SGOT/AST (aspartate		u/L
aminotransferase/AST)	ST= OUnknown	
	Not done	
LDH		units/L, U/L, ukat/L
	ST= OUnknown	
	Not done	
Total bilirubin		mg/dL
		umol/L
	ST= OUnknown	
	Not done	
Bilirubin direct		mg/dL
		umol/L
	ST= OUnknown	
	Not Done	

Bilirubin indirect		mg/dL	
		umol/L	
	ST= OUnknown		
	Not Done		
Albumin		g/dL	
		g/L	
	ST= OUnknown	<del>5</del> , <del>-</del>	
	Not done		
Pre-albumin		mg/dL	
		mg/L	
	ST= OUnknown		
	Not done		
Total Cholesterol		mg/dL	
		mmol/L	
	ST= 0 < 50 mg/dL		
	Unknown		
	Not done		
Brain natriuretic peptide BNP		pg/ml	
		ng/L	
	ST=		
	O Unknown		
	Not done		
NT pro brain natriuretic peptide Pro- BNP		pg/ml	
DNF		ng/L	
	ST= OUnknown		
	Not done		
White blood cell count		x10 <sup>3</sup> /uL	
		x10 <sup>9</sup> /L	
	ST= Ounknown		
	Not done		
Reticulocyte count		%	
	ST= Ounknown		
	Not Done		
Hemoglobin		g/dL	
		g/L	
		mmol/L	
	ST= OUnknown		
	Not done		

Hemoglobin A1C		8
		mmol/mol
Estimated Average Glucose (eAG):		-
		∫mg/dL
		_mmol/L
	ST= OUnknown Not Done	
Platelets		x10 <sup>3</sup> /uL
		x10 <sup>9</sup> /L
	ST= OUnknown	_
	Not done	
INR		international units
	ST= OUnknown	
	Not done	
		۰۰۰۰۰۰ ۲
Plasma-free hemoglobin		∫mg/dL
		_g/L
	ST= OUnknown Not Done	
Positive antiheparin/platelet	• Yes	
antibody (HIT)	<ul><li>No</li><li>Unknown</li></ul>	
If Yes, are they on direct thrombin inhibitors	Yes No	
	Unknown	
If Yes, Enter Drugs:	Plavix	
	<ul><li>Heparin</li><li>Coumadin</li></ul>	
	Direct thrombin inhibitor	s (ex: arg, lip, val…)
	<ul><li>Aspirin</li><li>Dipyridamole</li></ul>	
	.,	
Was a TEG done?	• Yes	
	No	
	Unknown	
ThrombElastoGraph Hemostasis System (TEG) profile, MA k		max amplitude in kaolin
	ST= Unknown	
	Not Done	
ThrombElastoGraph Hemostasis System (TEG) profile, R k		reaction time in kaolin
-,, p.o,	ST= OUnknown Not Done	

ThrombElastoGraph HemostasisSystem (TEG) profile, R h	ST= Unknown Not Done	reaction time w/heparinase
CRP or hs-CRP	ST= Unknown Not done	mg/dL
Lupus Anticoagulant	<ul><li>Positive</li><li>Negative</li><li>Unknown</li></ul>	
Uric acid	ST= O<1 mg/dL OUnknown Not done	mg/dL umol/L

ollowup Status (1 Week Foll	owup (+/- 3 days))
Select one of the following	<ul> <li>Inpatient</li> <li>Outpatient</li> <li>Other Facility</li> <li>Unable to obtain follow-up information</li> </ul>
Follow-up date	
Facility Type	<ul> <li>Nursing Home/Assisted Care</li> <li>Hospice</li> <li>Another hospital</li> <li>Rehabilitation Facility</li> <li>Unknown</li> </ul>
State reason why you are unable to obtain follow-up information	<ul> <li>Patient didn't come to clinic</li> <li>Not able to contact patient</li> <li>Not addressed by site</li> </ul>
Was patient intubated since implant? (This includes all time since last follow-up.)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Was patient on dialysis since implant? (This includes all time since last follow-up.)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Pump Change	
Pump Exchange	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>
Pump Exchange Reason	<ul> <li>Thrombus not associated with hemolysis</li> <li>Change in hemodynamics</li> <li>Clinical status</li> <li>Device parameters (please enter Device Malfunction Form)</li> <li>Upsizing device because of patient growth status</li> </ul>
Was there a Console Change? (For TAH or Berlin Heart Consoles)	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>
Date of console change	ST= OUnknown
Original Console Name	

New Console Name	
Medical Condition	
NYHA Class	<ul> <li>Class I: No limitation of physical activity; physical activity does not cause fatigue, palpitation or shortness of breath.</li> <li>Class II: Slight limitation of physical activity; comfortable at rest, but ordinary physical activity results in fatigue, palpitations or shortness of breath.</li> <li>Class III: Marked limitation of physical activity; comfortable at rest, but less than ordinary activity causes fatigue, palpitation or shortness of breath.</li> <li>Class IV: Unable to carry on minimal physical activity without discomfort; symptoms may be present at rest.</li> <li>Unknown</li> </ul>
ZONES	
Hemolysis Zone	
Please enter the peak Plasma-free hemoglobin (PFH) since Post-Op Day 4:	ST= Unknown Not Done
What is your hospital's upper limit of the normal range of peak PFH?	ST= OUnknown Not Done
Please enter the peak serum lactate dehydrogenase (LDH) since Post- Op Day 4:	ST= OUnknown Not Done
What is your hospital's upper limit of the normal range of LDH?	ST= OUnknown Not Done
Enter the Maximum and Minimum HCT o	r HGB since the Post-Op Day 4.
Min. HCT:	ST= OUnknown Not Done
Max. HCT:	ST= OUnknown Not Done
Min. HGB:	ST= OUnknown Not Done

1 Week Followup - Status

Max. HGB:	ST= OUnknown Not Done
Highest Total Bilirubin since Post- Op Day 4: Has the following been present at any tir Physical Findings:	ST= OUnknown Not Done me since Post-Op Day 4?
Hemoglobinuria (Tea-Colored Urine)?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Pump malfunction and/or abnormal pump parameters?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Right Heart Failure Zone	
Clinical Findings – Since the last visit.	
CVP or RAP > 16 mmHg?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Not Done</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is not documented, Check No)?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Not Done</li> </ul>
Clinical findings of elevated jugular venous distension at least half way up the neck in an upright patient (If ≥ 6 cm, Check Yes)?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Peripheral Edema (If ≥ 2, Check Yes)?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Ascites?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Has the patient been on Inotropes since the last visit?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>

If yes, select all that apply:	<ul> <li>Dopamine</li> <li>Dobutamine</li> <li>Milrinone</li> <li>Isoproterenol</li> <li>Epinephrine</li> <li>Norepinephrine</li> <li>Levosimendan</li> <li>Unknown</li> </ul>
Nesiritide?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Did the patient have an RVAD implanted since the last follow-up?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Has the patient experienced a Neurological Event since time of implant?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>
If yes, you may enter either the Modified	Rankin Scale and/or the NIH Stroke Scale.
Modified Rankin Scale	<ul> <li>0 - No symptoms at all</li> <li>1 - No Significant disability: despite symptoms: able to carry out all usual duties and activities</li> <li>2 - Slight disability: unable to carry out all previous activities but able to look after own affairs without assistance</li> <li>3 - Moderate disability: requiring some help, but able to walk without assistance.</li> <li>4 - Moderately severe disability: unable to walk without assistance, and unable to attend to own bodily needs without assistance.</li> <li>5 - Severe disability: bedridden, incontinent and requiring constant nursing care and attention.</li> <li>6 - Dead</li> </ul>
	Not Done
NIH Stroke Scale	<ul> <li>0: No Stroke</li> <li>1-4: Minor Stroke</li> <li>5-15: Moderate Stroke</li> <li>16-20: Moderate to Severe Stroke</li> <li>21-42: Severe Stroke</li> </ul>
	ST= ONOT Documented Not Done

# 1 Week Followup - Intermacs

emodynamics		
General Hemodynamics		
Heart rate	ST= Unknown Not done	
Systolic blood pressure	ST= OUnknown Not done	
Diastolic blood pressure	ST= OUnknown Not done	
Doppler Opening Pressure	ST= Unknown Not done Not applicable	
ECG rhythm	<ul> <li>Sinus</li> <li>Atrial fibrillation</li> <li>Atrial Flutter</li> <li>Paced: Atrial pacing</li> <li>Paced: Ventricular pacing</li> <li>Paced: Atrial and ventricular pacing</li> <li>Not done</li> <li>Unknown</li> <li>Other, specify</li> </ul>	
Weight	ST= Unknown Not done	
Echo Findings		
Mitral regurgitation	<ul> <li>0 (none)</li> <li>1 (mild)</li> <li>2 (moderate)</li> <li>3 (severe)</li> <li>Not Recorded or Not Documented</li> </ul>	
Tricuspid regurgitation	<ul><li>○ 0 (none)</li><li>○ 1 (mild)</li></ul>	

	<ul> <li>2 (moderate)</li> <li>3 (severe)</li> <li>Not Recorded or Not</li> </ul>	ot Documented	
Aortic regurgitation	<ul> <li>0 (none)</li> <li>1 (mild)</li> <li>2 (moderate)</li> <li>3 (severe)</li> <li>Not Recorded or Not Documented</li> </ul>		
LVEF	<ul> <li>&gt; 50 (normal)</li> <li>40-49 (mild)</li> <li>30-39 (moderate)</li> <li>20-29 (moderate/severe)</li> <li>&lt; 20 (severe)</li> <li>Not Recorded or Not Documented</li> <li>Unknown</li> </ul>		
	nly as "left ventricular function" o	cample, a reported ejection fraction of 30-35 would be entered as or "systolic function" in words. "Mild impairment, mildly reduced,	
LVEDD	ST= ONOT Recorded of	cm or Not Documented	
ventricular contractility". "Mild impairment, mildly re	educed, or mild decrease" would	nay be described as "right ventricular function" or "right all be characterized as "mild". Again, mild-moderate would be	
recorded as moderate, and moderate-severe woul	d be recorded as severe .		
Pulmonary artery systolic pressure	ST= OUnknown Not done	mmHg	
Pulmonary artery diastolic pressure	ST= OUnknown Not done	mmHg	
Mean RA Pressure	ST= OUnknown Not done	mmHg	

1 Week Followup - Hemodynamics

version date: 9/27/2017

Central venous pressure (CVP)	ST= OUnknown	mmHg
	Not done	
Mean Pulmonary artery wedge pressure		mmHg
prosourc	ST= OUnknown Not done	
Cardiac Index		L/min/M <sup>2</sup> (by Swan)
	ST= Unknown Not done	
Was Cardiac Index Measured by Fick or Thermodilution?	<ul><li>Yes</li><li>No</li></ul>	
	Unknown	
Choose Method	<ul><li>Fick</li><li>Thermodilution</li></ul>	
Cardiac output		Liters/min
	ST= OUnknown	
Was Cardiac Output Measured by Fick or Thermodilution?	<ul><li>Yes</li><li>No</li></ul>	
Choose Method	<ul><li>Fick</li><li>Thermodilution</li></ul>	

### **1 Week Followup - Intermacs**

# Medications Angiotensin receptor blocker drug Yes No Unknown Amiodarone Yes No Unknown ACE inhibitors Yes No Unknown

	Unknown
Thrombolytic	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>
Beta-blockers	◯ Yes

	No			
	Unkr	nown		
Aldosterone antagonist	O Yes			
	No			
	Unkn	nown		
Low molecular weight heparin	O Yes			
(Lovenox, Fragmin, Innohep)	No			
	Unkr	nown		
UFH: Unfractionated Heparin	Yes			
· · · · ·	No			
	Unkr	nown		
Warfarin (coumadin)	◯ Yes			

	<ul><li>No</li><li>Unknown</li></ul>	
Arixtra (fondaparinux)	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Antiplatelet therapy drug	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	

Select drug(s)	<ul> <li>Aspirin</li> <li>Dextran</li> <li>Dipyridamole</li> <li>Clopidogrel</li> <li>Ticlopidine</li> <li>Unknown</li> <li>Other, specify</li> </ul>	
Nitric oxide	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Phosphodiesterase inhibitor	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Digoxin	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Loop diuretics	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
If yes, enter dosage:	ST= OUnknown	mg/day
Type of Loop Diuretic:	<ul> <li>Furosemide</li> <li>Torsemide</li> <li>Bumetanide</li> <li>Other</li> </ul>	

# 1 Week Followup - Intermacs

oratory		
Sodium		mEq/L
		mmol/L
	ST= OUnknown	
	Not done	
Potassium		mEq/L
		mmol/L
	ST= OUnknown	
	Not done	
Blood urea nitrogen		mg/dL
		mmol/L
	ST= OUnknown	
	Not done	
Creatinine		mg/dL
		umol/L
	ST= Ounknown	
	Not done	
SGPT/ALT (alanine		
aminotransferase/ALT)	ST= OUnknown	u/L
	<ul> <li>Not done</li> </ul>	
SGOT/AST (aspartate		u/L
aminotransferase/AST)	ST= Ounknown	
	Not done	
LDH		units/L, U/L, ukat/L
	ST= OUnknown	
	Not done	
Total bilirubin		
		mg/dL
		umol/L
	ST= OUnknown ONot done	
Bilirubin direct		mg/dL
		umol/L
	ST= OUnknown	
	Not Done	

Bilirubin indirect		mg/dL
		umol/L
	ST= OUnknown	
	Not Done	
Albumin		g/dL
		g/L
	ST= 🔍 Unknown	
	Not done	
Pre-albumin		mg/dL
		mg/L
	ST= OUnknown	
	Not done	
Total Cholesterol		mg/dL
		mmol/L
	ST=	
	<ul> <li>Unknown</li> </ul>	
	Not done	
Brain natriuretic peptide BNP		pg/ml
		ng/L
	ST=	
	Not done	
NT pro brain natriuretic peptide Pro-		
BNP		pg/ml
		ng/L
	ST= OUnknown ONot done	
White blood cell count		x10 <sup>3</sup> /uL
		x10 <sup>9</sup> /L
	ST= OUnknown	
	Not done	
Reticulocyte count		%
	ST= 🔍 Unknown	
	Not Done	
Hemoglobin		g/dL
-		g/L
		mmol/L
	ST= OUnknown	
	Not done	

Hemoglobin A1C		8
		mmol/mol
Estimated Average Glucose (eAG):		о
		] mg/dL
	ST= OUnknown	] mmol/L
	Not Done	
Platelets		]
		]x10 <sup>3</sup> /uL
	ST= OUnknown	x10 <sup>9</sup> /L
	Not done	
		_
INR		international units
	ST= OUnknown Not done	
Plasma-free hemoglobin		mg/dL
		]g/L
	ST= OUnknown	
	○ Not Done	
Positive antiheparin/platelet	• Yes	
antibody (HIT)	No	
	Unknown	
If Yes, are they on direct thrombin inhibitors	<ul><li>Yes</li><li>No</li></ul>	
	<ul><li>Unknown</li></ul>	
If Yes, Enter Drugs:	Plavix	
	Heparin	
	<ul> <li>Coumadin</li> <li>Direct thrombin inhibitors</li> </ul>	s (ex: arg, lip, val)
	<ul><li>Aspirin</li><li>Dipyridamole</li></ul>	
Was a TEG done?	• Yes	
	No	
	Unknown	
ThrombElastoGraph Hemostasis System (TEG) profile, MA k		max amplitude in kaolin
	ST= Unknown	
	Not Done	~
ThrombElastoGraph Hemostasis System (TEG) profile, R k		reaction time in kaolin
	ST= OUnknown Not Done	

ThrombElastoGraph HemostasisSystem (TEG) profile, R h	ST= OUnknown Not Done	reaction time w/heparinase
CRP or hs-CRP	ST= OUnknown Not done	mg/dL
Lupus Anticoagulant	<ul><li>Positive</li><li>Negative</li><li>Unknown</li></ul>	
Uric acid	ST= O<1 mg/dL OUnknown Not done	mg/dL umol/L

1 Year Post Cessation	of Mechanical Support
Enter Information you are reporting	
Date of Event	
Death	
Is the patient deceased ?	• Yes
	No
Death Date	
Primary cause of death	<ul> <li>Respiratory: Venous Thromboembolism Event</li> <li>Respiratory: Respiratory Failure</li> <li>Respiratory: Pulmonary: Other, specify</li> <li>Circulatory: Arterial Non-CNS Thromboembolism</li> <li>Circulatory: Myocardial Infarction</li> <li>Circulatory: Myocardial Rupture</li> <li>Circulatory: Ruptured Aortic aneurysm</li> <li>Circulatory: Right Heart Failure</li> <li>Circulatory: Cardiac Arrhythmia</li> <li>Circulatory: Hemolysis</li> <li>Circulatory: Hypertension</li> <li>Circulatory: Sudden unexplained death</li> <li>Circulatory: End Stage Cardiomyopathy</li> <li>Circulatory: End Stage Cardiomyopathy</li> <li>Circulatory: Pericardial Fluid Collection (effusion)</li> <li>Digestive (Intestinal or GI/GU): Renal Dysfunction</li> <li>Digestive (Intestinal or GI/GU): Fluid/Electrolyte Disorder</li> <li>Digestive (Intestinal or GI/GU): Pancreatitis</li> <li>Nervous System: Neurological Dysfunction</li> <li>Psychiatric Episode/Suicide</li> </ul>
	<ul> <li>Major Infection</li> <li>Device Malfunction</li> <li>Multiple System Organ Eailure (MSOE)</li> </ul>
	<ul> <li>Multiple System Organ Failure (MSOF)</li> <li>Withdrawal of Support, specify</li> </ul>
	Wound Dehiscence
	<ul> <li>Trauma/accident, specify</li> </ul>
	Endocrine
	Hematological
	Other, specify

Cancer	<ul> <li>CNS</li> <li>GI</li> <li>Lymph</li> <li>ENT</li> </ul>
	<ul> <li>Pulmonary</li> <li>Renal</li> <li>Breast</li> </ul>
	<ul> <li>Reproductive</li> <li>Skin</li> <li>Other</li> </ul>
	O Unknown
Specify support withdrawn	
Specify Transplant	
Was the patient transplanted ?	<ul><li>Yes</li><li>No</li></ul>
Transplant date	

ollowup Status (3 Month Fol	llowup (+/- 1 month))
Select one of the following	<ul> <li>Inpatient</li> <li>Outpatient</li> <li>Other Facility</li> <li>Unable to obtain follow-up information</li> </ul>
Follow-up date	
Facility Type	<ul> <li>Nursing Home/Assisted Care</li> <li>Hospice</li> <li>Another hospital</li> <li>Rehabilitation Facility</li> <li>Unknown</li> </ul>
State reason why you are unable to obtain follow-up information:	<ul> <li>Patient didn't come to clinic</li> <li>Not able to contact patient</li> <li>Not addressed by site</li> </ul>
Was patient intubated since implant? (This includes all time since last follow-up.)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Was patient on dialysis since implant? (This includes all time since last follow-up.)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Current Device Strategy	<ul> <li>Bridge to Recovery</li> <li>Rescue Therapy</li> <li>Bridge to Transplant (patient currently listed for transplant)</li> <li>Possible Bridge to Transplant - Likely to be eligible</li> <li>Possible Bridge to Transplant - Moderate likelihood of becoming eligible</li> <li>Possible Bridge to Transplant - Unlikely to become eligible</li> <li>Destination Therapy (patient definitely not eligible for transplant)</li> <li>Other, specify</li> </ul>
List Date for Transplant	ST= OUnknown
Pump Change Pump Exchange	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>

3 Month Followup - Status

If yes, Please select the Pump Exchange Reason:	<ul> <li>Thrombus not associated with hemolysis</li> <li>Change in hemodynamics</li> <li>Clinical status</li> <li>Device parameters (please enter Device Malfunction Form)</li> <li>Upsizing device because of patient growth status</li> </ul>	
Was there a Console Change? (For TAH or Berlin Heart Consoles)	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Date of console change	ST= OUnknown	
Original Console Name		
New Console Name		
ZONES		
Hemolysis Zone		
Please enter the peak Plasma-free hemoglobin (PFH) since the last follow-up visit:	ST= Unknown Not Done	
What is your hospital's upper limit of the normal range of peak PFH:	ST= Ounknown Not Done	
Please enter the peak serum lactate dehydrogenase (LDH) since the last follow-up visit:	ST= Ounknown Not Done	
What is your hospital's upper limit of the normal range of LDH:	ST= Unknown Not Done	
Enter the Maximum and Minimum HCT o	r HGB since the last Follow-up visit:	
Min. HCT:	ST= Unknown Not Done	
Max. HCT:	ST= OUnknown Not Done	

3 Month Followup - Status

Min. HGB:	
	ST= Ounknown
	Not Done
Max. HGB:	
	ST= OUnknown
	Not Done
Highest Total Bilirubin since the last	
Follow-up period:	
	ST= OUnknown
	Not Done
las the following been present at any ti	me since the last Follow-up period?
Physical Findings:	
Hemoglobinuria (Tea-Colored	• Yes
Urine)?	No
	Unknown
Pump malfunction and/or abnormal	Yes
pump parameters?	<ul> <li>No</li> </ul>
Clinical Findings – Since the last followu CVP or RAP > 16 mmHg?	
	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Not Dans</li> </ul>
	No
Dilated Vena Cava with absence of	<ul><li>No</li><li>Unknown</li></ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is not documented, Check No)?	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Not Done</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is not documented, Check No)? Clinical findings of elevated jugular venous distension at least half way	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is not documented, Check No)? Clinical findings of elevated jugular venous distension at least half way up the neck in an upright patient (If	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is not documented, Check No)? Clinical findings of elevated jugular venous distension at least half way	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>Not Done</li> <li>Yes</li> <li>Yes</li> <li>No</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is not documented, Check No)? Clinical findings of elevated jugular venous distension at least half way up the neck in an upright patient (If ≥ 6 cm, Check Yes)? Peripheral Edema (If ≥ 2, Check	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>Not Done</li> <li>Yes</li> <li>Yes</li> <li>No</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is not documented, Check No)? Clinical findings of elevated jugular venous distension at least half way up the neck in an upright patient (If ≥ 6 cm, Check Yes)?	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Yes</li> <li>No</li> <li>Vnknown</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is not documented, Check No)? Clinical findings of elevated jugular venous distension at least half way up the neck in an upright patient (If ≥ 6 cm, Check Yes)? Peripheral Edema (If ≥ 2, Check	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is not documented, Check No)? Clinical findings of elevated jugular venous distension at least half way up the neck in an upright patient (If ≥ 6 cm, Check Yes)? Peripheral Edema (If ≥ 2, Check Yes)?	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is not documented, Check No)? Clinical findings of elevated jugular venous distension at least half way up the neck in an upright patient (If ≥ 6 cm, Check Yes)? Peripheral Edema (If ≥ 2, Check	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Yes</li> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is not documented, Check No)? Clinical findings of elevated jugular venous distension at least half way up the neck in an upright patient (If ≥ 6 cm, Check Yes)? Peripheral Edema (If ≥ 2, Check Yes)?	<ul> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Not Done</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>

Has the patient been on Inotropes since the last Follow-up?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
If yes, select all that apply:	<ul> <li>Dopamine</li> <li>Dobutamine</li> <li>Milrinone</li> <li>Isoproterenol</li> <li>Epinephrine</li> <li>Norepinephrine</li> <li>Levosimendan</li> <li>Unknown</li> </ul>
Nesiritide?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Did the patient have an RVAD implanted since the last follow-up?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Has the patient experienced a Neurological Event since time of implant?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>
If yes, you may enter either the Modified	d Rankin Scale and/or the NIH Stroke Scale.
Modified Rankin Scale	<ul> <li>0 - No symptoms at all</li> <li>1 - No Significant disability: despite symptoms: able to carry out all usual duties and activities</li> <li>2 - Slight disability: unable to carry out all previous activities but able to look after own affairs without assistance</li> <li>3 - Moderate disability: requiring some help, but able to walk without assistance.</li> <li>4 - Moderately severe disability: unable to walk without assistance, and unable to attend to own bodily needs without assistance.</li> <li>5 - Severe disability: bedridden, incontinent and requiring constant nursing care and attention.</li> <li>6 - Dead</li> </ul>
	ST= ONOT Documented Not Done
NIH Stroke Scale	<ul> <li>0: No Stroke</li> <li>1-4: Minor Stroke</li> <li>5-15: Moderate Stroke</li> <li>16-20: Moderate to Severe Stroke</li> <li>21-42: Severe Stroke</li> </ul>
	ST= ONot Documented Not Done

emodynamics	
General Hemodynamics	
Heart rate	ST= OUnknown Not done
Systolic blood pressure	□ MmHg ST= □ Unknown □ Not done
Diastolic blood pressure	□ mmHg ST= □ Unknown □ Not done
Doppler Opening Pressure	ST= OUnknown Not done Not applicable
ECG rhythm	<ul> <li>Sinus</li> <li>Atrial fibrillation</li> <li>Atrial Flutter</li> <li>Paced: Atrial pacing</li> <li>Paced: Ventricular pacing</li> <li>Paced: Atrial and ventricular pacing</li> <li>Not done</li> <li>Unknown</li> <li>Other, specify</li> </ul>
Weight	Ibs kg ST= Unknown Not done
Echo Findings	
Mitral regurgitation	<ul> <li>0 (none)</li> <li>1 (mild)</li> <li>2 (moderate)</li> <li>3 (severe)</li> <li>Not Recorded or Not Documented</li> </ul>
Tricuspid regurgitation	<ul><li>○ 0 (none)</li><li>○ 1 (mild)</li></ul>

	<ul> <li>2 (moderate)</li> <li>3 (severe)</li> <li>Not Recorded or No</li> </ul>	t Documented
Aortic regurgitation	<ul> <li>0 (none)</li> <li>1 (mild)</li> <li>2 (moderate)</li> <li>3 (severe)</li> <li>Not Recorded or No</li> </ul>	t Documented
LVEF	<ul> <li>&gt; 50 (normal)</li> <li>40-49 (mild)</li> <li>30-39 (moderate)</li> <li>20-29 (moderate/sev</li> <li>&lt; 20 (severe)</li> <li>Not Recorded or No</li> <li>Unknown</li> </ul>	
If a number or range is available, check the number 30-40. Occasionally the LVEF may be described o or mild decrease" would all be characterized as "m	nly as "left ventricular function" o	ample, a reported ejection fraction of 30-35 would be entered as r "systolic function" in words. "Mild impairment, mildly reduced,
LVEDD	ST= ONOT Recorded of	cm or Not Documented
RVEF RV Function is generally NOT measured in number ventricular contractility". "Mild impairment, mildly re recorded as moderate, and moderate-severe would	educed, or mild decrease" would	nay be described as "right ventricular function" or "right all be characterized as "mild". Again, mild-moderate would be
wan Hemodynamics		
Pulmonary artery systolic pressure	ST= OUnknown Not done	mmHg
Pulmonary artery diastolic pressure	ST= OUnknown Not done	mmHg
Mean RA Pressure	ST= OUnknown	mmHg

Central venous pressure (CVP)	ST= OUnknown Not done	mmHg
Mean Pulmonary artery wedge pressure	ST= Unknown Not done	mmHg
Cardiac Index	ST= Unknown Not done	L/min/M <sup>2</sup> (by Swan)
Was Cardiac Index Measured by Fick or Thermodilution?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Choose Method	<ul><li>Fick</li><li>Thermodilution</li></ul>	
Cardiac output	ST= Unknown Not done	Liters/min
Was Cardiac Output Measured by Fick or Thermodilution?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Choose Method	<ul><li>Fick</li><li>Thermodilution</li></ul>	

Medications		
Hydralazine	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
Calcium channel blockers	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
Angiotensin receptor blocker drug	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
Amiodarone	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
ACE inhibitors	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
Thrombolytic	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
Beta-blockers	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
Aldosterone antagonist	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
Low molecular weight heparin (Lovenox, Fragmin, Innohep)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
UFH: Unfractionated Heparin	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
Warfarin (coumadin)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
Arixtra (fondaparinux)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
Antiplatelet therapy drug	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
-----------------------------	---	--------
Select drug(s)	<ul> <li>Aspirin</li> <li>Dextran</li> <li>Dipyridamole</li> <li>Clopidogrel</li> <li>Ticlopidine</li> <li>Unknown</li> <li>Other, specify</li> </ul>	
Nitric oxide	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Phosphodiesterase inhibitor	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Digoxin	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Loop diuretics	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
If yes, enter dosage:	ST= OUnknown	mg/day
Type of Loop Diuretic:	<ul> <li>Furosemide</li> <li>Torsemide</li> <li>Bumetanide</li> <li>Other</li> </ul>	

# 3 Month Followup - Intermacs

Sodium		mEq/L
		mmol/L
	ST= OUnknown	
	Not done	
Potassium		mEq/L
		mmol/L
	ST= OUnknown	
	Not done	
Blood urea nitrogen		mg/dL
		mmol/L
	ST= OUnknown	
	Not done	
Creatinine		mg/dL
		umol/L
	ST= OUnknown	
	Not done	
SGPT/ALT (alanine		u/L
aminotransferase/ALT)	ST= OUnknown	
	Not done	
SGOT/AST (aspartate		u/L
aminotransferase/AST)	ST= OUnknown	
	Not done	
LDH		units/L, U/L, ukat/L
	ST= OUnknown	
	Not done	
Total bilirubin		mg/dL
		umol/L
	ST= OUnknown	
	Not done	
Bilirubin direct		mg/dL
		umol/L
	ST= OUnknown	
	Not Done	

Bilirubin indirect		mg/dL				
		umol/L				
	ST= OUnknown					
	<ul> <li>Not Done</li> </ul>					
Albumin		g/dL				
		g/L				
	ST= OUnknown	3' -				
	<ul> <li>Not done</li> </ul>					
Pre-albumin		mg/dL				
		mg/L				
	ST= Ounknown					
	Not done					
Total Cholesterol		mg/dL				
		mmol/L				
	ST=					
	Not done					
Brain natriuretic peptide BNP		pg/ml				
		ng/L				
	ST=					
	Unknown					
	Not done					
NT pro brain natriuretic peptide Pro-		pg/ml				
BNP		ng/L				
	ST= Ounknown					
	Not done					
White blood cell count		x10 <sup>3</sup> /uL				
		×10 <sup>9</sup> /L				
	ST= OUnknown					
	<ul> <li>Not done</li> </ul>					
Reticulocyte count		%				
-	ST= OUnknown	/ <b>0</b>				
	Not Done					
Hemoglobin		g/dL				
		g/L				
		mmol/L				
	ST= OUnknown	mino//L				
	<ul> <li>Not done</li> </ul>					

Hemoglobin A1C		8
		mmol/mol
Estimated Average Glucose (eAG):		
		Jmg/dL
		] mmol/L
	ST= OUnknown Not Done	
Platelets		x10 <sup>3</sup> /uL
		x10 <sup>9</sup> /L
	ST= OUnknown	
	Not done	
INR		
INK		international units
	ST= OUnknown Not done	
Plasma-free hemoglobin		] mg/dL
		]g/L
	ST= Ounknown	
	Not Done	
Positive antiheparin/platelet		
antibody (HIT)	<ul><li>Yes</li><li>No</li></ul>	
	Unknown	
If Yes, are they on direct thrombin	• Yes	
inhibitors	<ul><li>No</li><li>Unknown</li></ul>	
If Yes, Enter Drugs:	<ul><li>Plavix</li><li>Heparin</li></ul>	
	Coumadin	
	<ul> <li>Direct thrombin inhibitors</li> <li>Aspirin</li> </ul>	s (ex: arg, lip, val)
	<ul> <li>Dipyridamole</li> </ul>	
Was a TEG done?	• Yes	
	Unknown	2
ThrombElastoGraph Hemostasis System (TEG) profile, MA k		max amplitude in kaolin
	ST= Unknown	
	Not Done	2
ThrombElastoGraph Hemostasis System (TEG) profile, R k		reaction time in kaolin
	ST= OUnknown Not Done	

ThrombElastoGraph HemostasisSystem (TEG) profile, R h	ST= OUnknown Not Done	reaction time w/heparinase
Sensitivity CRP	ST= OUnknown Not done	mg/L
Lupus Anticoagulant	<ul><li>Positive</li><li>Negative</li><li>Unknown</li></ul>	
Uric acid	ST= O<1 mg/dL OUnknown Not done	mg/dL umol/L

evice Flow Chart			
Device Function			
Pump Flow		LPM	
	ST= OUnknown		
Pulsality Index			
	ST= OUnknown		
Pump Power		Watts	
	ST= Unknown		
Device Parameters			
Pump Speed		RPM	
	ST= 🔍 Unknown		
Low Speed		RPM	
	ST= Ounknown		
Device Inspection			
Auscultation	<ul><li>Abnormal</li><li>Normal</li></ul>		
	Not Applicable		
Driveline	Abnormal		
	<ul> <li>Normal</li> <li>Not Applicable</li> </ul>		
Device Funtion (RVAD)			
Pump Flow (RVAD)		LPM	
	ST= 🔍 Unknown		
Device Parameters (RVAD)			
Pump Speed (RVAD)	ST= OUnknown	RPM	
Device Inspection (RVAD)			
Depositions	<ul> <li>Abnormal</li> <li>Normal</li> </ul>		
	Not Applicable		
	[		

vice Flow Chart		
evice Function		
Pump Flow		LPM
	ST= Ounknown	
Pulsality Index		
	ST= OUnknown	
Pump Power		Watts
	ST= OUnknown	
evice Parameters		
Pump Speed		RPM
	ST= OUnknown	
Low Speed		RPM
	ST= Unknown	
evice Inspection		
Auscultation	Abnormal	
	<ul> <li>Normal</li> <li>Not Applicable</li> </ul>	
Driveline	Abnormal	
	Normal	
	Not Applicable	
	L	

#### **3 Month Followup - Intermacs Device Flow Chart Device Function** Left Flow LPM ST= Ounknown **Right Flow** LPM ST= Unknown Not Applicable Left Fill Volume: ml ST= Ounknown **Right Fill Volume** ml ST= Unknown Not Applicable **Device Parameters** Pump Rate BPM ST= Unknown Vacuum Pressure mm Hg ST= Ounknown Not Applicable Left Drive Pressure mm Hg ST= Ounknown Not Applicable **Right Drive Pressure** mm Hg ST= Ounknown Not Applicable **Device Inspection** Auscultation Abnormal Normal Not Applicable

evice Flow Chart		
Device Function		
Pump Flow		LPM
	ST= OUnknown	
Pump Power		Watts
	ST= OUnknown	
Device Parameters		
Pump Speed		RPM
	ST= OUnknown	
Device Inspection		
Auscultation	Abnormal	
	<ul> <li>Normal</li> </ul>	
	Not Applicable	
Driveline	Abnormal	
Divenie	<ul> <li>Abriormal</li> <li>Normal</li> </ul>	
	Not Applicable	

ercise Function and Trailm	aking Data	
6 minute walk		feet
	ST= ONot done: too sick	
	Not done: other	
instructed to walk steadily to cover as much distant 6 minutes. The staff member performing the test st	nce as possible during the 6 minutes. T should walk behind the patient to avoid : You may use the time from the first	y as long as possible to avoid frequent turns. Patients are hey are advised that they may stop if necessary during th undue influence on the pace. The distance covered durin t 15 feet of the 6minute walk for the Gait speed test
Gait Speed (1st 15 foot walk)		seconds
· · · /	ST= ONot done: too sick	
	Not done: other	
	<ul> <li>Unknown</li> </ul>	
stopwatch. NOTE: You may use the time from t Peak VO2 Max		۰ 
		mL/kg/min
	ST= ONot done: too sick	
exercise testing either on a bicycle or treadmill. The	he values recorded during the bicycle a	nl/kg/min of oxygen consumed during symptom-limited re usually 1-2 ml/min lower than for the treadmill, but it is ycle is preferable as the mode easiest to standardize.
R Value at peak		%
	ST= OUnknown	_
	Not done	
R Value at peak is the respiratory quotient of carb the patient exercised. A value above 1.05 is gene railmaking		en consumption, and is used as an index of how vigorous ate effort.
Status	Completed	
Cinido	<ul> <li>Attempted but not completed</li> </ul>	eted
	<ul> <li>Not attempted</li> </ul>	
	Completed but invalid (s	cores not entered)
Time		seconds

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

# 3 Month Followup - Intermacs

#### **Concerns and Contraindications**

	IS CO	nanno	on present?	LIMI	ation for transplant listing?
Overall Status:	Yes	No		Yes	No
Advanced age	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Frailty	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Patient does not want transplant	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Musculoskeletal limitation to ambulation	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Contraindication to immunosuppression	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Allosensitization	$\bigcirc$	$\bigcirc$		0	0
Chronic Renal Disease	$\bigcirc$	$\bigcirc$		$\bigcirc$	0
Cardiothoracic issues	Yes	No		Yes	No
Frequent ICD Shocks	$\bigcirc$	$\bigcirc$		$\bigcirc$	0
Pulmonary Disease	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Pulmonary Hypertension	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Recent Pulmonary Embolus	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
History Of Atrial Arrhythmia	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Unfavorable Mediastinal Anatomy includes sternotomies, sternal resection, adiation, flail chest, etc)	$\bigcirc$	$\bigcirc$		$\bigcirc$	0
Thoracic Aortic Disease	$\bigcirc$	$\bigcirc$		0	0
Nutritional/GI	Yes	No		Yes	No
Large BMI	$\bigcirc$	$\bigcirc$		$\bigcirc$	0
Severe Diabetes	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Malnutrition Cachexia	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
History Of GI Ulcers	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
History Of Hepatitis	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Liver Dysfunction	$\bigcirc$	$\bigcirc$		$\bigcirc$	0
Vascular issues	Yes	No		Yes	No
Heparin Induced Thrombocytopenia	$\bigcirc$	$\bigcirc$		0	0
	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Chronic Coagulopathy	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Chronic Coagulopathy Major Stroke	$\bigcirc$				
	0	$\bigcirc$		$\bigcirc$	0
Major Stroke	-	0		0	0

History Of Solid Organ Cancer	$\bigcirc$	0	0	$\bigcirc$	
History Of Lymphoma Leukemia	0	0	0	0	
History Of Bone Marrow Transplant BMT	0	0	0	0	
History Of HIV	0	0 0	0	0	
Chronic Infectious Concerns	0	0	0	0	
	)	0	0	0	
Psychosocial issues	Yes	No	Yes	No	
imited Cognition/Understanding	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
imited Social Support	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Repeated Noncompliance	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
History Of Illicit Drug Use	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
History Of Alcohol Abuse	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Narcotic Dependence	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
History Of Smoking	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Currently Smoking	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Severe Depression	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Other Major Psychiatric Diagnosis	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Other Comorbidity	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	
f history of HIV is present, answer the HIV	questi	ons below:			
history of HIV is present, answer the HIV HIV Diagnosis Date	questi	ons below:			
	ST	ons below: = OUnknown Not Done			
	ST	= OUnknown			
HIV Diagnosis Date Plasma HIV-1 RNA (Viral load) -	ST O ST	<ul> <li>Unknown</li> <li>Not Done</li> <li>Not Done</li> </ul>			
HIV Diagnosis Date Plasma HIV-1 RNA (Viral load) - Closest to implant CD4 T-Cell Count - Closest to	ST O ST	= OUnknown Not Done			
HIV Diagnosis Date Plasma HIV-1 RNA (Viral load) - Closest to implant CD4 T-Cell Count - Closest to implant Erythrocyte Sedimentation Rate	ST O ST	<ul> <li>Unknown</li> <li>Not Done</li> <li>Not Done</li> </ul>			
HIV Diagnosis Date Plasma HIV-1 RNA (Viral load) - Closest to implant CD4 T-Cell Count - Closest to implant	ST ST	<ul> <li>Unknown</li> <li>Not Done</li> <li>Not Done</li> </ul>			
HIV Diagnosis Date Plasma HIV-1 RNA (Viral load) - Closest to implant CD4 T-Cell Count - Closest to implant Erythrocyte Sedimentation Rate (ESR)	ST ST	<ul> <li>Unknown</li> <li>Not Done</li> <li>Not Done</li> <li>Not Done</li> </ul>			
HIV Diagnosis Date Plasma HIV-1 RNA (Viral load) - Closest to implant CD4 T-Cell Count - Closest to implant Erythrocyte Sedimentation Rate	ST ST	<ul> <li>Unknown</li> <li>Not Done</li> <li>Not Done</li> <li>Not Done</li> </ul>			

	<ul> <li>Didanosine (ddl) / Videx EC</li> <li>Dolutegravir / Tivicay</li> <li>Efavirenz (EFV) / Sustiva</li> <li>Emtricitabine (FTC) / Emtriva</li> <li>Enfuvirtide (T20) / Fuzeon</li> <li>Epzicom (3TC/ABC)</li> <li>Etravirine (ETR) / Intelence</li> <li>Fosamprenavir (FPV) / Lexiva</li> <li>Indinavir (IDV) / Crixivan</li> <li>Kaletra (LPV/r)</li> <li>Lamivudine (3TC) / Epivir</li> <li>Maraviroc (MVC) / Selzentry</li> <li>Nelfinavir (NFV) / Viracept</li> <li>Nevirapine (NVP) / Viramune / Viramune XR</li> <li>Raltegravir (RAL) / Isentress</li> <li>Rilpivrine (RPV) / Lexita</li> <li>Ritonavir (SQV) / Invirase</li> <li>Stavudine (d4T) / Zerit</li> <li>Stribild (FTC/EVG/COBI/TDF)</li> <li>Tenofovir Disoproxil Fumarate (TDF) / Viread</li> <li>Tipranivir (TPV) / Aptivus</li> <li>Trizivir (3TC/ZDV/ABC)</li> <li>Truvada (FTC/TDF)</li> <li>Zidovudine (ZDV) / Retrovir</li> <li>Unknown</li> <li>None</li> </ul>
Infection Prophylaxis (Select all that apply)	<ul> <li>Atovaquone</li> <li>Azithromycin</li> <li>Dapsone</li> <li>Fluconazole</li> <li>Pentamidine, aerosolized</li> <li>Trimethroprim-sulfamethoxazole (TMP-SMX)</li> <li>Unknown</li> <li>None</li> </ul>
Has patient had an opportunistic infection since last follow-up?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
	If yes, enter infection date: ST= Unknown Not Done
	If yes, enter Type of Infection (select all that apply) 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

3 Month Followup - Concerns and Contraindications		version date: 9/27/2017
	Negative	
	ST= OUnknown Not Done	
History of Hepatitis C	<ul><li>Positive</li><li>Negative</li></ul>	
	ST= OUnknown Not Done	

# 3 Month Followup - Intermacs

OL surveys cannot be administered after th	ne visit date)
ıroQol (EQ-5D)	
Did the patient complete a EuroQol form?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>
How was the test administered?	<ul> <li>Self-administered</li> <li>Coordinator administered</li> <li>Family member administered</li> </ul>
Mobility:	<ul> <li>I have no problems in walking about</li> <li>I have some problems in walking about</li> <li>I am confined to bed</li> <li>Unknown</li> </ul>
Self care	<ul> <li>I have no problems with self-care</li> <li>I have some problems washing or dressing myself</li> <li>I am unable to wash or dress myself</li> <li>Unknown</li> </ul>
Usual Activities (e.g. work, study, housework, family or leisure activities)	<ul> <li>I have no problems with performing my usual activities</li> <li>I have some problems with performing my usual activities</li> <li>I am unable to perform my usual activities</li> <li>Unknown</li> </ul>
Pain/discomfort	<ul> <li>I have no pain or discomfort</li> <li>I have moderate pain or discomfort</li> <li>I have extreme pain or discomfort</li> <li>Unknown</li> </ul>
Anxiety/depression	<ul> <li>I am not anxious or depressed</li> <li>I am moderately anxious or depressed</li> <li>I am extremely anxious or depressed</li> <li>Unknown</li> </ul>
Patient Visual Analog Status (VAS)	(0-100) 0=Worst, 100=Best ST=
Which of the following best describes your *one* main activity?	<ul> <li>Actively working</li> <li>Retired</li> <li>Keeping house</li> <li>Student</li> <li>Seeking work</li> <li>Too sick to work (disabled)</li> </ul>

	<ul> <li>Unknown</li> <li>Other</li> </ul>
Is this "one" main activity considered	<ul> <li>Full time</li> <li>Part time</li> <li>Unknown</li> </ul>
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= OUnknown
Have you unintentionally lost more than 10 pounds in the last year?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Do you currently smoke cigarettes?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
If Yes, How many cigarettes are you currently smoking, on average?	<ul> <li>Half a pack or less per day</li> <li>More than half to 1 pack per day</li> <li>1 to 2 packs per day</li> <li>2 or more packs per day</li> </ul>
Do you currently smoke e- cigarettes?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Please enter a number from 1 to 1	LO for the questions below.
How much stress related to your health issues do you feel you've been under during the past month?	ST= OUnknown
How well do you feel you've been coping with or handling your stress related to your health issues during the past month?	ST= OUnknown
How confident are you that you can do the tasks and activities needed to manage your ventricular assist device so as to reduce how much having a ventricular assist device affects your everyday life?	ST= OUnknown
How satisfied are you with the outcome of your ventricular assist device surgery, during the past 3 months?	ST= OUnknown
If you had to do it all over again, would you decide to have a	

ventricular assist device knowing	Definitely No
what you know now?	Probably No
	Not Sure
	Probably Yes
	Definitely Yes
	<ul> <li>Unknown</li> </ul>
If No, Please select a reason why	Too sick (ex., intubated/sedated, critically ill, on short-term VAD)
the EuroQol (EQ-5D) was not completed:	Too tired
completed.	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
	<ul> <li>Administrative (check specific reason below)</li> </ul>
If Administrative, select a specific reason	Urgent/emergent implant, no time to administer QOL instruments
100001	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)
nsas City Cardiomyopathy Ques	tionnaire
ansas City Cardiomyopathy Ques Did the patient complete a KCCQ form?	• Yes
Did the patient complete a KCCQ	
Did the patient complete a KCCQ	• Yes
Did the patient complete a KCCQ form?	<ul><li>Yes</li><li>No</li></ul>
Did the patient complete a KCCQ form?	<ul> <li>Yes</li> <li>No</li> <li>Self-administered</li> </ul>
Did the patient complete a KCCQ form? How was the test administered? eart Failure affects different people in tigue. Please indicate how much you	<ul> <li>Yes</li> <li>No</li> <li>Self-administered</li> <li>Coordinator administered</li> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in</li> </ul>
Did the patient complete a KCCQ form? How was the test administered? eart Failure affects different people in tigue. Please indicate how much you our ability to do the following activitie	<ul> <li>Yes</li> <li>No</li> <li>Self-administered</li> <li>Coordinator administered</li> <li>Family member administered</li> <li>Family member administered</li> </ul> different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in s over the past 2 weeks.
Did the patient complete a KCCQ form? How was the test administered? eart Failure affects different people in tigue. Please indicate how much you	<ul> <li>Yes</li> <li>No</li> <li>Self-administered</li> <li>Coordinator administered</li> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> </ul>
Did the patient complete a KCCQ form? How was the test administered? eart Failure affects different people in tigue. Please indicate how much you our ability to do the following activitie	<ul> <li>Yes</li> <li>No</li> <li>Self-administered</li> <li>Coordinator administered</li> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in s over the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> </ul>
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Did the patient complete a KCCQ form? How was the test administered? eart Failure affects different people in atigue. Please indicate how much you our ability to do the following activitie	<ul> <li>Yes</li> <li>No</li> <li>Self-administered</li> <li>Coordinator administered</li> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> </ul>
Did the patient complete a KCCQ form? How was the test administered? eart Failure affects different people in atigue. Please indicate how much you our ability to do the following activitie	<ul> <li>Yes</li> <li>No</li> <li>Self-administered</li> <li>Coordinator administered</li> <li>Family member administered</li> <li>Family member administered</li> </ul> different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks. <ul> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Not at all limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> </ul>
Did the patient complete a KCCQ form? How was the test administered? leart Failure affects different people in atigue. Please indicate how much you our ability to do the following activitie Showering/Bathing	<ul> <li>Yes</li> <li>No</li> <li>Self-administered</li> <li>Coordinator administered</li> <li>Family member administered</li> <li>Family member administered</li> </ul> different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks. <ul> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Not at all limited</li> <li>Limited for other reasons or did not do the activity</li> </ul>
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Did the patient complete a KCCQ form? How was the test administered? leart Failure affects different people in atigue. Please indicate how much you our ability to do the following activitie Showering/Bathing	<ul> <li>Yes</li> <li>No</li> <li>Self-administered</li> <li>Coordinator administered</li> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Not at all limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Moderately limited</li> <li>Moderately limited</li> <li>Moderately limited</li> <li>Moderately limited</li> <li>Moderately limited</li> </ul>
form? How was the test administered? leart Failure affects different people in atigue. Please indicate how much you our ability to do the following activitie Showering/Bathing	<ul> <li>Yes</li> <li>No</li> <li>Self-administered</li> <li>Coordinator administered</li> <li>Family member administered</li> </ul> different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks. <ul> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Not at all limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> <li>Extremely limited</li> <li>Quite a bit limited</li> </ul>
Did the patient complete a KCCQ form? How was the test administered? leart Failure affects different people in atigue. Please indicate how much you our ability to do the following activitie Showering/Bathing	<ul> <li>Yes</li> <li>No</li> <li>Self-administered</li> <li>Coordinator administered</li> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> </ul>

Hurrying or jogging (as if to catch a bus)	<ul> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Not at all limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> </ul>
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?	<ul> <li>Every morning</li> <li>3 or more times a week, but not every day</li> <li>1-2 times a week</li> <li>Less than once a week</li> <li>Never over the past 2 weeks</li> <li>Unknown</li> </ul>
Over the past 2 weeks, on average, how many times has fatigue limited your ability to do what you want?	<ul> <li>All of the time</li> <li>Several times per day</li> <li>At least once a day</li> <li>3 or more times per week but not every day</li> <li>1-2 times per week</li> <li>Less than once a week</li> <li>Never over the past 2 weeks</li> <li>Unknown</li> </ul>
Over the past 2 weeks, on average, how many times has shortness of breath limited your ability to do what you wanted?	<ul> <li>All of the time</li> <li>Several times per day</li> <li>At least once a day</li> <li>3 or more times per week but not every day</li> <li>1-2 times per week</li> <li>Less than once a week</li> <li>Never over the past 2 weeks</li> <li>Unknown</li> </ul>
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?	<ul> <li>Every night</li> <li>3 or more times a week, but not every day</li> <li>1-2 times a week</li> <li>Less than once a week</li> <li>Never over the past 2 weeks</li> <li>Unknown</li> </ul>
Over the past 2 weeks, how much has your heart failure limited your enjoyment of life?	<ul> <li>It has extremely limited my enjoyment of life</li> <li>It has limited my enjoyment of life quite a bit</li> <li>It has moderately limited my enjoyment of life</li> <li>It has slightly limited my enjoyment of life</li> <li>It has not limited my enjoyment of life at all</li> <li>Unknown</li> </ul>
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?	<ul> <li>Not at all satisfied</li> <li>Mostly dissatisfied</li> <li>Somewhat satisfied</li> <li>Mostly satisfied</li> </ul>

Completely satisfied
Unknown

Hobbies, recreational activities	Soverely limited
	<ul> <li>Severely limited</li> <li>Limited guite a bit</li> </ul>
	<ul> <li>Limited quite a bit</li> <li>Moderately limited</li> </ul>
	Slightly limited
	<ul> <li>Did not limit at all</li> </ul>
	Does not apply or did not do for other reasons
	- Chikilowit
/orking 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
	O Unknown
isiting family or friends out of your	Severely limited
home	<ul> <li>Limited quite a bit</li> </ul>
	Moderately limited
	Slightly limited
	<ul> <li>Did not limit at all</li> </ul>
	Does not apply or did not do for other reasons
	○ Unknown
If No, Please select a reason why the KCCQ was not completed:	<ul> <li>Too sick (ex., intubated/sedated, critically ill, on short-term VAD)</li> <li>Too tired</li> </ul>
	<ul> <li>Too stressed, anxious, and/or depressed</li> </ul>
	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	Urgent/emergent implant, no time to administer QOL instruments
reason	<ul> <li>Coordinator too busy or forgot to administer QOL instruments</li> </ul>
	<ul> <li>Unable to contact patient (ie., not hospitalized or no clinic visit) within the</li> </ul>
	window for QOL instrument completion
	Other reason (describe)

Please enter the date of the event you are reporting:	
Please enter a label describing this event:	

hospitalization		
Was there an occurrence of rehospitalization?	<ul><li>Yes</li><li>No</li></ul>	
Is this rehospitalization at your hospital?	<ul><li>Yes</li><li>No</li></ul>	
Date of admission	ST= OUnknown	
Discharge Date	ST= OUnknown	
Primary reason for rehospitalization	<ul> <li>Anticoagulation adjustment</li> <li>Arterial Non-CNS Thrombo-embolism</li> <li>Cardiac Arrhythmia</li> <li>Cardiac Tamponade</li> <li>Catastrophe (i.e. weather)</li> <li>Device Malfunction</li> <li>Diagnostic Procedure</li> <li>Explant</li> <li>Fever without known cause</li> <li>Fluid Overload</li> <li>Gastroenteritis</li> <li>GI Disorder</li> <li>Hematological</li> <li>Hematological</li> <li>Hepatic Dysfunction</li> <li>Hypertension</li> <li>Limb vascular complication</li> <li>Major Bleeding</li> <li>Major Infection</li> <li>Pericardial Infarction</li> <li>Planned medical management</li> <li>Planned Procedure</li> <li>Planned Procedure</li> <li>Pulmonary Embolism/Hemorrhage</li> <li>Pulmonary Cher</li> <li>Reight Heart Failure</li> <li>Syncope without known cause</li> <li>Transplant</li> </ul>	

	Trauma/Accident
	Venous Thromboembolic Event
	Wound Complication
	Wound Dehiscence
	O Unknown
	Other, specify
Rehospitalization intervention	Currical Drasadura
Renospitalization intervention	Surgical Procedure
	Heart Cath     A
	Invasive Cardiac Procedures (Other than Heart Cath)
	Transplantation
	None
	Other
Type of surgical procedure	Device related operation
	Other Cardiac Surgical Procedure
	Non Cardiac Surgical Procedure
	Other procedure
	Unknown
pe of other cardiac procedure	Reoperation for Bleeding within 48 hours of implant
	Reoperation for Bleeding and/or tamponade > 48 hours
	Surgical Drainage of pericardial effusion
	Aortic Valve Surgery - Repair (no valve closure)
	Aortic Valve Surgery - Repair with valve closure
	Aortic Valve Surgery - Replacement - Biological
	Aortic Valve Surgery - Replacement - Mechanical
	Mitral Valve Surgery - Repair
	Mitral Valve Surgery - Replacement - Biological
	Mitral Valve Surgery - Replacement - Mechanical
	Tricuspid Valve Surgery - Repair - DeVega
	Tricuspid Valve Surgery - Repair - Ring
	Tricuspid Valve Surgery - Repair - Other
	Tricuspid Valve Surgery – Replacement - Biological
	Tricuspid Valve Surgery – Replacement - Mechanical
	Pulmonary Valve Surgery - Repair
	Pulmonary Valve Surgery – Replacement - Biological
	Pulmonary Valve Surgery – Replacement - Mechanical
	O Unknown
	Other, specify
ype of procedure (non cardiac surgical procedure)	
	Intubation and Vent support
surgical procedure)	<ul> <li>Intubation and Vent support</li> <li>Dialvsis</li> </ul>
surgical procedure)	Dialysis
surgical procedure)	<ul> <li>Dialysis</li> <li>Bronchoscopy</li> </ul>
surgical procedure)	Dialysis
surgical procedure) Other procedure	<ul> <li>Dialysis</li> <li>Bronchoscopy</li> </ul>
surgical procedure)	<ul> <li>Dialysis</li> <li>Bronchoscopy</li> </ul>

Trauma/Accident

Enter PA systolic pressure		mmHg
	ST= Unknown	
	Not Done	
Enter PA diastolic pressure		mmHg
	ST= OUnknown	
	Not Done	
Enter PCW pressure		mmHg
	ST= OUnknown	
	Not Done	
Enter Cardiac output		
Enter Cardiac output		L/min
	ST= 🔍 Unknown	
	Not Done	
Clinical Observations		
Systolic blood pressure		mmHg
	ST= 🔍 Unknown	
	Not done	
Diastolic blood pressure		mmHg
	ST= OUnknown	
	Not done	
Doppler Opening Pressure		
	OT O Halassa	
	ST= OUnknown ONot done	
	<ul> <li>Not done</li> <li>Not applicable</li> </ul>	
Has the patient experienced a	Non	
Neurological Event since time of	<ul><li>Yes</li><li>No</li></ul>	
implant?		
If yes, you may enter either the Modified	d Rankin Scale and/or the I	NIH Stroke Scale.
Modified Rankin Scale:	<ul> <li>0 – No symptoms at a</li> </ul>	
mounieu Nankin Ocale.		bility: despite symptoms: able to carry out all usual
	duties and activities	
	igodove  2 - Slight disability: unable to carry out all previous activities but able to	
	look after own affairs without assistance	
	3 - Moderate disability: requiring some help, but able to walk without assistance.	
	<ul> <li>4 - Moderately severe disability: unable to walk without assistance, and</li> </ul>	
		odily needs without assistance.
	-	pedridden, incontinent and requiring constant
	nursing care and attention	ו.
	6 - Dead	
	ST= ONot Documented	
	Not Done	

NIH Stroke Scale

- 0: No Stroke
  - 1-4: Minor Stroke
  - 5-15: Moderate Stroke
  - 16-20: Moderate to Severe Stroke
  - 21-42: Severe Stroke

ST= ONot Documented Not Done

Infection	
Was there a major infection?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Date of onset	ST= OUnknown
Did this infection contribute to death?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Location of patient	<ul> <li>In hospital</li> <li>Out of hospital</li> <li>Unknown</li> </ul>
Location of infection	<ul> <li>Pump / related - Drive Line</li> <li>Pump / related - Exit Cannula</li> <li>Pump / related - Pump Pocket</li> <li>Pump / related - Pump Interior</li> <li>Positive Blood cultures</li> <li>Line Sepsis</li> <li>Pulmonary</li> <li>Urinary Tract</li> <li>Mediastinum</li> <li>Peripheral Wound</li> <li>GI</li> <li>Unknown</li> <li>Other, specify</li> </ul>
Type of infection	<ul> <li>Bacterial</li> <li>Fungal</li> <li>Viral</li> <li>Protozoan</li> <li>Unknown</li> </ul>
Was drug therapy an intervention for this AE?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>
If yes, what was the route?	<ul> <li>IV</li> <li>Oral</li> <li>Topical</li> <li>Unknown</li> </ul>
Was surgery an intervention for this AE?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>

Is this a Device Related Event?

YesNo

Was there a Major Bleeding Event?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Date of bleeding episode onset	ST= OUnknown
Location of patient	<ul> <li>In hospital</li> <li>Out of hospital</li> <li>Unknown</li> </ul>
Did the major bleeding episode result in one or more of the following	<ul> <li>Episode resulted in Death</li> <li>Episode resulted in re-operation</li> <li>Episode resulted in rehospitalization</li> <li>Episode resulted in transfusion</li> </ul>
Total units PRBC	ST= OUnknown
Date of first transfusion for this episode	ST= OUnknown
Source/cause/location of bleeding	<ul> <li>Mediastinal: chest wall</li> <li>Mediastinal: outflow-aorta anastomosis</li> <li>Mediastinal: outflow conduit</li> <li>Mediastinal: inflow conduit</li> <li>Mediastinal: aortic-venous cannulation site</li> <li>Mediastinal: coagulopathy with no surgical site</li> <li>Mediastinal: other surgical site</li> <li>Pump pocket</li> <li>Mediastinal: Unspecified</li> <li>Pleural space</li> <li>Intra-abdominal</li> <li>Retroperitoneal</li> <li>Pulmonary</li> <li>Device anastamosis</li> <li>Urinary tract</li> <li>GI: Upper gastrointestinal (colon, rectum, and anus)</li> <li>GI: unknown, but guaiac positive stools</li> <li>ENT/Dental</li> <li>Other, specify</li> </ul>
INR	ST= OUnknown

Adverse Event - Bleeding

Anticoagulant therapy at time of event	<ul> <li>Warfarin</li> <li>Heparin</li> <li>Lovenox</li> <li>Aspirin</li> <li>Dipyridamole</li> <li>Clopidogrel (plavix)</li> <li>Argatroban</li> <li>Bivalirudin</li> <li>Fondaparinux</li> <li>Dextran</li> <li>Ticlopidine</li> <li>Hirudin</li> <li>Lepirudin</li> <li>Ximelagatran</li> <li>None</li> <li>Other, specify</li> </ul>
Is this a Device Related Event?	<ul> <li>Yes</li> <li>No</li> </ul>

N	euro	
	Was there a neurological dysfunction?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
	Date of onset	ST= OUnknown
	Location of patient	<ul> <li>In hospital</li> <li>Out of hospital</li> <li>Unknown</li> </ul>
	Neurological dysfunction categories	<ul> <li>TIA</li> <li>Confusion</li> <li>CVA</li> <li>Seizure</li> <li>Encephalopathy</li> </ul>
	Type of CVA	<ul> <li>Ischemic / Embolism</li> <li>Hemorrhagic</li> <li>Other</li> </ul>
	Stroke severity	<ul> <li>Left sided weakness</li> <li>Right sided paralysis</li> <li>Right sided paralysis</li> <li>Speech deficit</li> <li>Altered mental status</li> <li>Coma</li> <li>Other, specify</li> </ul>
	Is this a Device Related Event?	<ul><li>Yes</li><li>No</li></ul>
	Seizure Type	<ul> <li>Generalized</li> <li>Focal</li> </ul>
	Encephalopathy type	<ul> <li>Metabolic</li> <li>Anoxic</li> <li>Traumatic</li> <li>Other</li> </ul>
	Did this Neurological Dysfunction Adverse Event contribute to the patient's death?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
	Location of CNS event	<ul> <li>Right hemisphere: frontal</li> <li>Right hemisphere: temporal</li> </ul>

	<ul> <li>Right hemisphere: occipital</li> <li>Right hemisphere: parietal</li> <li>Right hemisphere: unspecified</li> <li>Left hemisphere: temporal</li> <li>Left hemisphere: occipital</li> <li>Left hemisphere: parietal</li> <li>Left hemisphere: unspecified</li> <li>Bilateral: frontal</li> <li>Bilateral: temporal</li> <li>Bilateral: parietal</li> <li>Occipital</li> <li>Brain stem</li> <li>Cerebellar</li> <li>Thalamic</li> <li>Unknown</li> <li>Other, specify</li> </ul>
Method of diagnosis of CNS event	<ul> <li>CT</li> <li>MRI</li> <li>Angiogram</li> <li>Clinical</li> <li>Unknown</li> <li>Other, specify</li> </ul>
Anticoagulant therapy at time of event	<ul> <li>Warfarin</li> <li>Heparin</li> <li>Lovenox</li> <li>Aspirin</li> <li>Dipyridamole</li> <li>Clopidogrel (plavix)</li> <li>Argatroban</li> <li>Bivalirudin</li> <li>Fondaparinux</li> <li>Dextran</li> <li>Ticlopidine</li> <li>Hirudin</li> <li>Lepirudin</li> <li>Ximelagatran</li> <li>None</li> <li>Other, specify</li> </ul>
Has the patient experienced a Neurological Event since time of implant?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
If yes, you may enter either the Modified	Rankin Scale and/or the NIH Stroke Scale.
Modified Rankin Scale	<ul> <li>0 - No symptoms at all</li> <li>1 - No Significant disability: despite symptoms: able to carry out all usual duties and activities</li> <li>2 - Slight disability: unable to carry out all previous activities but able to look after own affairs without assistance</li> <li>3 - Moderate disability: requiring some help, but able to walk without assistance.</li> </ul>

	<ul> <li>4 - Moderately severe disability: unable to walk without assistance, and unable to attend to own bodily needs without assistance.</li> <li>5 - Severe disability: bedridden, incontinent and requiring constant nursing care and attention.</li> <li>6 - Dead</li> </ul> ST= Not Documented <ul> <li>Not Done</li> </ul>
NIH Stroke Scale	<ul> <li>Not Done</li> <li>0: No Stroke</li> <li>1-4: Minor Stroke</li> <li>5-15: Moderate Stroke</li> <li>16-20: Moderate to Severe Stroke</li> <li>21-42: Severe Stroke</li> </ul>
	ST= Not Documented Not Done

Was there a device malfunction / failure and / or a pump thrombus?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>
Date of onset	
Device Type	
Location of patient	<ul> <li>In hospital</li> <li>Out of hospital</li> <li>Unknown</li> </ul>
Description of Malfunction	
rombus Event	
Did the patient experience a thrombus event (suspected or confirmed)?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>
Was the suspected or confirmed thrombus associated with one or more of the following signs or symptoms?	<ul> <li>Hemolysis</li> <li>Heart Failure</li> <li>Abnormal Pump Parameters</li> <li>Stroke</li> <li>TIA</li> <li>Arterial Non-CNS Thromboembolism</li> <li>None</li> <li>Other, Specify</li> </ul>
id the patient have one or more of the following?	<ul> <li>Treatment with intravenous anticoagulation (e.g. heparin)</li> <li>Intravenous thrombolytic (e.g. TPA)</li> <li>Intravenous antiplatelet therapy (e.g. eptifibatide)</li> <li>Other, Specify</li> </ul>
Was the thrombus event confirmed?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>
Please select method of confirmation:	<ul> <li>Imaging Study</li> <li>Visual Inspection</li> <li>Manufacturer's Report</li> </ul>

Was there a device Malfunction?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Please select all of the component	s that apply
Pump	<ul> <li>Yes</li> <li>No</li> </ul>
Pump Component(s)	<ul> <li>Pump Body (including bearings and rotor)</li> <li>Driveline</li> <li>Inflow Cannula</li> <li>Outflow Graft (including bend relief)</li> </ul>
Controller	<ul><li>Yes</li><li>No</li></ul>
Controller	<ul> <li>Primary System Failure (running in backup mode)</li> <li>Complete System Failure (primary and backup failure)</li> <li>Power Cable (attached to controller)</li> <li>Power Connectors (attached to controller)</li> <li>Other, Specify</li> </ul>
Peripherals	<ul><li>Yes</li><li>No</li></ul>
Peripheral Component(s)	<ul> <li>External Battery</li> <li>Cell Battery (in controller)</li> <li>Power Module</li> <li>Patient Cable</li> <li>System Monitor / Display</li> <li>Battery Charger</li> <li>Battery Clip</li> </ul>
Pump (RVAD)	<ul><li>Yes</li><li>No</li></ul>
Pump Component(s) (RVAD)	<ul> <li>Pump Body (including bearings and rotor)</li> <li>Driveline</li> <li>Inflow Cannula</li> <li>Outflow Graft (including bend relief)</li> </ul>
Controller (RVAD)	<ul><li>Yes</li><li>No</li></ul>
Controller Component(s) (RVAD)	<ul> <li>Primary System Failure (running in backup mode)</li> <li>Complete System Failure (primary and backup failure)</li> <li>Power Cable (attached to controller)</li> <li>Power Connectors (attached to controller)</li> <li>Other, Specify</li> </ul>
Peripherals (RVAD)	<ul><li>Yes</li><li>No</li></ul>
Peripheral Component(s) (RVAD)	<ul> <li>External Battery</li> <li>Cell Battery (in controller)</li> <li>Power Module</li> </ul>

	<ul> <li>Patient Cable</li> <li>System Monitor / Display</li> <li>Battery Charger</li> <li>Battery Clip</li> </ul>
Outcomes of Device Adverse Even	t
Patient Outcome	<ul> <li>Death</li> <li>Serious Injury</li> <li>Urgent Transplantation</li> <li>Explant Without Replacement</li> <li>Exchange</li> <li>Breach of Integrity of Drive Line that Required Repair</li> <li>Other Surgical Procedure</li> <li>None of the Above</li> </ul>
Causative or contributing factors to the Device Malfunction	<ul> <li>Patient Accident</li> <li>Patient Non-Compliance</li> <li>Sub Therapeutic Anticoagulation</li> <li>Prothrombotic States</li> <li>End of Component Expected Life</li> <li>Technical and/or Procedural Issues (e.g. cannula or graft malposition or kinking)</li> <li>No Cause Identified</li> </ul>

Were there any additional adverse events?	<ul><li>Yes</li><li>No</li></ul>	
Cardiac Arrhythmia	• Yes	
	<ul><li>No</li><li>Unknown</li></ul>	
Event Date	ST= OUnknown	
Type of cardiac arrhythmia	<ul> <li>Statistical ventricular arrhythmia requiring defibrillation or cardioversio</li> <li>Sustained supraventricular arrhythmia requiring drug treatment or cardioversion</li> <li>Unknown</li> </ul>	
Pericardial Effusion	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
Event Date	ST= OUnknown	
Signs of tamponade	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Method of drainage	<ul> <li>Surgical intervention</li> <li>Cath</li> <li>Unknown</li> </ul>	
Hepatic Dysfunction	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>	
Total bilirubin measurement	ST= Unknown Not Done	
SGOT // AST measurement	u/L	
	ST= OUnknown Not Done	
SGPT // ALT measurement	Unknown	
Event Date		
Myocardial Infarction Event Date	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>ST= Unknown</li> </ul>	
-------------------------------------	---	-------
Psychiatric Episode Event Date	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>ST= Unknown</li> </ul>	
Renal Dysfunction	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Event Date	ST= OUnknown	
Dialysis duration	ST= Unknown Not Done Ongoing	days
Peak creatinine measurement	ST= OUnknown Not Done	mg/dL
Respiratory Failure	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Event Date	ST= OUnknown Ongoing	
Intubation duration	ST= Ounknown Ongoing	days
Was a trachoetomy performed?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
Arterial Non-CNS Thromboembolism	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	

Date	
	ST= OUnknown
Location	<ul> <li>Pulmonary</li> <li>Renal</li> </ul>
	Limb
	Other
	Unknown
Confirmation source	Standard clinical and laboratory testing
	Operative findings
	Autopsy finding
	Other
	Unknown
Anticoagulant therapy at time of	U Warfarin
event	Heparin
	Lovenox
	Aspirin
	<ul> <li>Dipyridamole</li> <li>Clapidagral (clavity)</li> </ul>
	<ul> <li>Clopidogrel (plavix)</li> <li>Argatroban</li> </ul>
	Bivalirudin
	Dextran
	Ticlopidine
	Hirudin
	<ul> <li>Ximelagatran</li> <li>None</li> </ul>
	<ul> <li>Other, specify</li> </ul>
/enous Thromboembolism Event	Deep Vein thrombosis
	<ul> <li>Pulmonary Embolis</li> <li>Other, specify</li> </ul>
	Unknown
	<ul> <li>None</li> </ul>
Enter deep vein thrombosis date	
	ST= OUnknown
Enter pulmonary embolus date	
Enter pulmonary embolus date	ST= OUnknown
Enter pulmonary embolus date Enter other date	
	ST= OUnknown ST= OUnknown

Anticoagulant therapy at time of event	<ul> <li>Warfarin</li> <li>Heparin</li> <li>Lovenox</li> <li>Aspirin</li> <li>Dipyridamole</li> <li>Clopidogrel (plavix)</li> <li>Argatroban</li> <li>Bivalirudin</li> <li>Fondaparinux</li> <li>Dextran</li> <li>Ticlopidine</li> <li>Hirudin</li> <li>Lepirudin</li> <li>Ximelagatran</li> <li>None</li> <li>Other, specify</li> </ul>
Wound Dehiscence	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Date	ST= OUnknown
Enter location:	<ul> <li>Sternum</li> <li>Driveline Sites</li> <li>Site of thoracotomy</li> <li>Other, specify</li> </ul>
Other Events	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Description	
Event Date	ST= OUnknown

#### **Adverse Event - Intermacs**

plant	
Was Device Explanted for any reason (includes exchanges or "turned off")?	<ul><li>Yes</li><li>No</li></ul>
Explant date	ST= OUnknown
Device explanted	© LVAD
Explant reason	<ul> <li>Explant - Death</li> <li>Explant - Transplanted</li> <li>Explant - Exchange</li> <li>Explant - No new device</li> <li>Turned off (decommissioned)</li> </ul>
Explant reasons (check all that apply)	<ul> <li>Device Malfunction: Elective (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Malfunction: Emergent (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Thrombosis: Elective (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Thrombosis: Emergent (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Thrombosis: Emergent (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Thrombosis: Emergent (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Thrombosis: Emergent (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Thrombus form)</li> <li>Other</li> </ul>
Exchanged Device FDA IDE Trial	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Name of FDA IDE Trial	
Explant reasons (check all that apply)	<ul> <li>Recovery</li> <li>Withdrawal of Support</li> <li>Device Malfunction: Elective (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Malfunction: Emergent (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Thrombosis: Elective (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Thrombosis: Emergent (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Thrombosis: Emergent (Please fill out Device Malfunction/Thrombus form)</li> <li>Infection: Elective (Please fill out Infection form)</li> <li>Infection: Emergent (Please fill out Infection form)</li> <li>Other</li> </ul>

Reasons (check all that apply)	<ul> <li>Recovery</li> <li>Withdrawal of Support</li> <li>Device Malfunction: Elective (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Malfunction: Emergent (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Thrombosis: Elective (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Thrombosis: Emergent (Please fill out Device Malfunction/Thrombus form)</li> <li>Device Thrombosis: Emergent (Please fill out Device Malfunction/Thrombus form)</li> <li>Infection: Elective (Please fill out Infection form)</li> <li>Infection: Emergent (Please fill out Infection form)</li> <li>Other</li> </ul>
Evidence of Pump Thrombosis?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>
Evidence of Pump Thrombosis?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>
Transplant date	ST= OUnknown
Waitlist ID	

#### **Adverse Event - Intermacs**

De	ath	
	Did the patient die?	<ul><li>Yes</li><li>No</li></ul>
	Death date	ST= OUnknown
	Was device functioning normally?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
	Associated Operation	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
	Post mortem device explant?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
	Did the device go to the manufacturer?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
	Location of death	<ul> <li>In hospital</li> <li>Out of hospital</li> <li>Unknown</li> </ul>
	Timing of death	<ul> <li>Expected</li> <li>Unexpected</li> <li>Unknown</li> </ul>

#### Primary cause of death

Respiratory: Respiratory Failure

- Respiratory: Pulmonary: Other, specify
- Circulatory: Arterial Non-CNS Thromboembolism

Respiratory: Venous Thromboembolism Event

- Circulatory: Myocardial Infarction
- Circulatory: Myocardial Rupture
- Circulatory: Ruptured Aortic aneurysm
- Circulatory: Right Heart Failure
- Circulatory: Major Bleeding
- Circulatory: Cardiac Arrhythmia
- Circulatory: Hemolysis
- Circulatory: Hypertension
- Circulatory: Other, Specify
- Circulatory: Sudden unexplained death
- Circulatory: CHF
- Circulatory: Heart Disease
- Circulatory: End Stage Cardiomyopathy
- Circulatory: End Stage Ischemic Cardiomyopathy
- Circulatory: Pericardial Fluid Collection (effusion)
- Digestive (Intestinal or GI/GU): Hepatic Dysfunction
- Digestive (Intestinal or GI/GU): Renal Dysfunction
- Digestive (Intestinal or GI/GU): GI Disorder
- Digestive (Intestinal or GI/GU): Fluid/Electrolyte Disorder
- Digestive (Intestinal or GI/GU): Pancreatitis
- Nervous System: Neurological Dysfunction
- Psychiatric Episode/Suicide
- Major Infection
- Device Malfunction
- Multiple System Organ Failure (MSOF)
- Withdrawal of Support, specify
- Cancer
- Wound Dehiscence
- Trauma/accident, specify
- Endocrine
- Hematological
- Other, specify

Select type of cancer

- CNSGI
- Lymph
- ENT
- Pulmonary
- Renal
- Breast
- Reproductive
- Skin
- Other
- Unknown

Specify support withdrawn

Specify

#### **Demographics - Intermacs**

First Name	
Middle Name	
Last Name	
Medical record number	
SSN (last 5 digits)	ST= ONot Assigned OUndisclosed
Health Insurance Claim Number (HICN):	ST= OUnknown
Date of Birth	
Gender	<ul> <li>Male</li> <li>Female</li> <li>Unspecified</li> </ul>
Ethnicity: Hispanic or Latino	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Race	<ul> <li>American Indian or Alaska Native</li> <li>Asian</li> <li>African-American or Black</li> <li>Hawaiian or other Pacific Islander</li> <li>White</li> <li>Unknown / Undisclosed</li> <li>Other / none of the above</li> </ul>
Marital Status	<ul> <li>Single</li> <li>Married</li> <li>Domestic Partners</li> <li>Divorced/Separated</li> <li>Widowed</li> <li>Unknown</li> </ul>
Highest education level	<ul> <li>None</li> <li>Grade school (0-8)</li> <li>High school (9-12)</li> <li>Attended college/technical school</li> <li>Associate/bachelor degree</li> <li>Post-college graduate degree</li> </ul>

	Not Applicable	
	OUnknown	
Working for income	• Yes	
	No	
	Unknown	
If yes:	Working Full Time	
	Working Part Time due to Demands of Treatment	
	Working Part Time due to Disability	
	Working Part Time due to Insurance Conflict	
	Working Part Time due to Inability to Find Full Time Work	
	Working Part Time due to Patient Choice	
	Working Part Time Reason Unknown	
	Working, Part Time vs. Full Time Unknown	
If No, Not Working Due To:	Disability	
	Demands of Treatment	
	Insurance Conflict	
	Inability to Find Work	
	Patient Choice - Homemaker	
	Patient Choice - Student Full Time/Part Time	
	Patient Choice - Retired	
	Patient Choice - Other	
	Not Applicable - Hospitalized	
	Unknown	
Is patient involved in a VAD related	• Yes	
study?	<ul> <li>No</li> </ul>	
-		
What is the name of the study?		
What is the name of the study?		
Is this an industry sponsored	• Yes	
post approval study?	○ No	
	Unknown	

# Implant Discharge - Intermacs

During the implant hospitalization was the patient?	<ul> <li>Discharged alive with a device in place</li> <li>Died during the implant hospitalization</li> <li>Transplanted during the implant hospitalization</li> <li>Explanted due to recovery during the implant hospitalization</li> <li>Patient has device exchange (excluding RVAD exchange)</li> </ul>
Patient discharged to	<ul> <li>Home - residential setting</li> <li>Nursing Home / Assisted Care</li> <li>Hospice</li> <li>Another hospital</li> <li>Rehabilitation Facility</li> <li>Unknown</li> </ul>
Implant Discharge or LVAD Exchange Date	ST= OUNKNOWN
Acute care (ICU / CCU) duration of post-implant stay	ST=
Intermediate / step-down care - duration of post-implant stay	ST=
Date of approximate discontinuation of inotropes	<ul> <li>&lt; 1 week</li> <li>1-2 weeks</li> <li>2-4 weeks</li> <li>&gt; 4 weeks</li> <li>Ongoing</li> <li>Unknown</li> <li>Not applicable</li> </ul>
Interventions since implant	<ul> <li>Transplant</li> <li>Invasive Cardiac Procedures (Other than Heart Cath)</li> <li>Unknown</li> <li>None</li> <li>Surgical Procedures:</li> <li>Device Related Operation</li> <li>Surgical Procedure - Non Cardiac Surgical Procedure</li> <li>Surgical Procedure - Other Procedure</li> <li>Surgical Procedure - Unknown</li> <li>Cardiac Surgical Procedures:</li> <li>Reoperation for Bleeding within 48 hours of implant</li> <li>Reoperation for Bleeding and/or tamponade &gt; 48 hours</li> <li>Surgical Drainage of pericardial effusion</li> <li>Aortic Valve Surgery - Repair (no valve closure)</li> <li>Aortic Valve Surgery - Replacement - Biological</li> <li>Aortic Valve Surgery - Replacement - Biological</li> <li>Mitral Valve Surgery - Replacement - Biological</li> <li>Mitral Valve Surgery - Replacement - Mechanical</li> <li>Mitral Valve Surgery - Replacement - Mechanical</li> </ul>

	<ul> <li>Tricuspid Valve Surgery - Repair - DeVega</li> <li>Tricuspid Valve Surgery - Repair - Ring</li> <li>Tricuspid Valve Surgery - Repair - Other</li> <li>Tricuspid Valve Surgery - Replacement - Biological</li> <li>Tricuspid Valve Surgery - Replacement - Mechanical</li> <li>Pulmonary Valve Surgery - Replacement - Biological</li> <li>Pulmonary Valve Surgery - Replacement - Mechanical</li> <li>Other Cardiac Surgical Procedure</li> <li>Cardiac Surgical Procedure - Unknown</li> </ul> Other Procedures: <ul> <li>Reintubation due to Respiratory Failure</li> <li>Dialysis</li> <li>Bronchoscopy</li> <li>Other, specify</li> </ul>
Was there a pump exchange of a para- or extra- corporeal pump? (Example PVAD, Berlin Heart)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
If yes, Please select the Pump Exchange Reason:	<ul> <li>Thrombus not associated with hemolysis</li> <li>Change in hemodynamics</li> <li>Clinical status</li> <li>Device parameters (please enter Device Malfunction Form)</li> <li>Upsizing device because of patient growth status</li> </ul>
Was there a Console Change? (For TAH or Berlin Heart Consoles)	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Date of console change	ST= OUnknown
Original Console Name	
New Console Name	

#### **Implant Form - Intermacs**

Implant date	
Did you obtain consent from the patient?	<ul><li>Pes</li><li>No</li></ul>
Payor	<ul> <li>Government Health Insurance</li> <li>Commercial Health Insurance</li> <li>Health Maintenance Organization</li> <li>Non-U.S. Insurance</li> <li>None / Self</li> <li>Unknown</li> </ul>
Government:	<ul> <li>Medicare</li> <li>Medicaid</li> <li>State-Specific Plan</li> <li>Correctional Facility</li> </ul>
Health Insurance Claim Number (HIC):	ST= Unknown
	<ul> <li>Medicare Fee For Service</li> <li>Military Health Care</li> <li>Indian Health Service</li> <li>Not Applicable</li> <li>Other, specify</li> </ul>
National Provider Identifier (NPI) In Operator First Name	ntormation
	ST= OUnknown
Operator Middle Name	ST= OUnknown
Operator Last Name	ST= OUnknown
Operator NPI	ST= OUnknown
Additional indication for VAD	<ul> <li>Failure to wean from CPB</li> <li>Post Cardiac Surgery</li> <li>None</li> </ul>

Implant

Device type	<ul> <li>LVAD</li> <li>RVAD</li> <li>BIVAD</li> <li>TAH</li> </ul>
Device brand	<ul> <li>Berlin Heart EXCOR (paracorporeal)</li> <li>HeartWare HVAD</li> <li>HeartMate II LVAS</li> <li>HeartMate III</li> <li>HeartMate IP</li> <li>HeartMate VE</li> <li>HeartMate XVE</li> <li>Micromed DeBakey VAD - Child</li> <li>Novacor PC</li> <li>Novacor PCq</li> <li>Thoratec IVAD</li> <li>Thoratec PVAD</li> <li>Other, Specify</li> </ul>
Specify brand:	
Surgical Approach	<ul> <li>Sternotomy</li> <li>Thoracotomy</li> <li>Subcostal</li> <li>Unknown</li> <li>Other, specify</li> </ul>
LVAD: Serial Number	ST= OUnknown
LVAD: cannulae location-inflow	<ul> <li>LA appendage</li> <li>LA interatrial groove</li> <li>LV apex</li> <li>LV diaphragmatic surface</li> <li>Unknown</li> <li>Other, specify</li> </ul>
LVAD: cannulae location-outflow	<ul> <li>Ascending aorta</li> <li>Descending thoracic aorta</li> <li>Abdominal aorta</li> <li>Unknown</li> <li>Subclavian</li> <li>Other, Specify</li> </ul>
Device brand (RVAD)	
Specify brand (RVAD):	

Implant

RVAD: Serial Number	ST= OUnknown
RVAD: cannulae location-inflow	<ul> <li>RA</li> <li>RV</li> <li>Unknown</li> </ul>
RVAD: cannulae location-outflow	<ul> <li>MPA (main pulmonary artery)</li> <li>LPA (left pulmonary artery)</li> <li>RPA (right pulmonary artery)</li> <li>Conduit</li> <li>Other, Specify</li> </ul>
TAH: Serial Number	ST= OUnknown
Associated findings	<ul> <li>PFO / ASD</li> <li>Aortic Insufficiency</li> <li>Tricuspid Insufficiency</li> <li>None</li> </ul>
Aortic Insufficiency	<ul> <li>Mild</li> <li>Moderate</li> <li>Severe</li> </ul>
Tricuspid Insufficiency	<ul> <li>Mild</li> <li>Moderate</li> <li>Severe</li> </ul>
Concomitant surgery	<ul> <li>None</li> <li>ASD closure</li> <li>PFO closure</li> <li>RVAD Implant</li> <li>RVAD Explant</li> <li>ECMO Decannulation</li> <li>CABG</li> <li>VSD closure</li> <li>IABP Removal</li> <li>Congenital cardiac surgery, other</li> <li>Aortic Valve Surgery - Repair (no valve closure)</li> <li>Aortic Valve Surgery - Repair with valve closure</li> <li>Aortic Valve Surgery - Replacement - Biological</li> <li>Aortic Valve Surgery - Replacement - Biological</li> <li>Mitral Valve Surgery - Replacement - Biological</li> <li>Mitral Valve Surgery - Replacement - Mechanical</li> <li>Tricuspid Valve Surgery - Repair - DeVega</li> <li>Tricuspid Valve Surgery - Replacement - Biological</li> <li>Pulmonary Valve Surgery - Replacement - Biological</li> <li>Pulmonary Valve Surgery - Repair</li> <li>Pulmonary Valve Surgery - Repair</li> </ul>

Implant

<ul> <li>Pulmonary Valve S</li> <li>Other, specify</li> </ul>	urgery - Replacement - Mechanical
<ul> <li>Yes</li> <li>No</li> <li>ST= Unknown</li> <li>Not Done</li> </ul>	minutes
ST= OUNKNOWN	minutes
<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
ST= OUnknown Not Done	
	<ul> <li>Other, specify</li> <li>Yes</li> <li>No</li> <li>ST= Unknown</li> <li>Not Done</li> <li>ST= Unknown</li> <li>Yes</li> <li>No</li> <li>Unknown</li> <li>ST= Unknown</li> </ul>

PreIn	nplant Status	
Dem	ographics	
	Height	in
		cm
		ST= OUnknown Not Done
	Weight	Ibs
		kg
		ST= Ounknown
		Not Done
	Blood Type	0
		○ A
		B
		<ul> <li>AB</li> <li>Unknown</li> </ul>
		<b>O</b> IKHOWH
Mad	ing I Comment Chatra	
Mea	ical Support Status	
С	urrent Device Strategy at time of implant	Bridge to Recovery
	implant	<ul> <li>Rescue Therapy</li> <li>Bridge to Transplant (patient currently listed for transplant)</li> </ul>
		<ul> <li>Possible Bridge to Transplant - Likely to be eligible</li> </ul>
		Possible Bridge to Transplant - Moderate likelihood of becoming eligible
		Possible Bridge to Transplant - Unlikely to become eligible
		<ul> <li>Destination Therapy (patient definitely not eligible for transplant)</li> <li>Other, specify</li> </ul>
	List Date for Transplant	
		ST= OUnknown
	Current ICD device in place?	• Yes
		No
		O Unknown
т	ime since first cardiac diagnosis	○ < 1 month
		1 month - 1 year
		1-2 years
		<ul> <li>&gt; 2 years</li> <li>Unknown</li> </ul>

Number of cardiac hospitalizations	◎ 0-1
in the last 12 months	2-3
	■ 4 or more
	OUnknown
Cardiac diagnosis / Primary	Cancer
	Congenital Heart Disease: Biventricular: CAVC/VSD/ASD
	Congenital Heart Disease: Biventricular: Congenitally Corrected
	Transposition (I-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 CAV
	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     Destrictive Myopathy: Other exercise
	Restrictive Myopathy: Other, specify
	Restrictive Myopathy: Sarciodosis     Restrictive Myopathy: Sac to Rediction/Chamatherapy
	Restrictive Myopathy: Sec to Radiation/Chemotherapy
	<ul> <li>Valvular Heart Disease</li> <li>Unknown</li> </ul>
	<ul> <li>None</li> </ul>
Dilated Myopathy: Other, Specify:	
Restrictive Myopathy: Other, Specify:	
Congenital Heart Disease: Single Ventricle: Other, Specify:	

Cancer

Congenital Heart Disease: Biventricular: CAVC/VSD/ASD

Congenital Heart Disease: Biventricular: Congenitally Corrected Transposition (I-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: Sarciodosis

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	<ul> <li>None</li> <li>CABG</li> <li>Aneuryomectomy (DOR)</li> <li>Aortic Valve replacement / repair</li> <li>Mitral valve replacement / repair</li> <li>Congenital cardiac surgery</li> <li>LVAD</li> <li>RVAD</li> <li>TAH</li> <li>Previous heart transplant</li> <li>Previous ECMO</li> <li>Other, specify (INCLUDE ONLY OPERATIONS ACTUALLY PERFORMED ON HEART OR GREAT VESSELS)</li> </ul>
Congenital cardiac surgery, Check all that apply	<ul> <li>Congenitally Corrected Transposition Repair (double switch)</li> <li>Congenitally Corrected Transposition Repair (classic)</li> <li>PA Banding</li> <li>TOF/DORV/RVOTO Repair</li> <li>Ebstein's Anomaly Repair</li> <li>VSD Repair</li> <li>Norwood Stage I</li> <li>Glenn, Bi-directional</li> <li>Glenn, Classical</li> <li>Fontan Procedure</li> <li>d- Transposition of the Great Vessels Repair – arterial switch operation</li> <li>d- Transposition of the Great Vessels Repair – atrial switch (Senning/Mustard)</li> <li>Truncus Arteriosus Repair</li> <li>Complete AV Septal Defect Repair</li> <li>AP Shunt</li> <li>ASD Repair</li> <li>Damus Kaye Stansel (DKS)</li> <li>Other, specify</li> </ul>
Admitting Diagnosis or Planned Implant	<ul> <li>Heart failure</li> <li>Cardiac surgery</li> <li>Non-cardiac medical problem</li> <li>VAD Placement</li> <li>TAH Placement</li> <li>Other cardiology</li> <li>Acute MI</li> <li>Non-cardiac surgery</li> <li>Unknown</li> </ul>

### 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
- Aneursyomectomy (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:	<ul> <li>Congenitally Corrected Transposition Repair (double switch)</li> <li>Congenitally Corrected Transposition Repair (classic)</li> <li>PA Banding</li> <li>TOF/DORV/RVOTO Repair</li> <li>Ebstein's Anomaly Repair</li> <li>VSD Repair</li> <li>Norwood Stage I</li> <li>Glenn, Bi-directional</li> <li>Glenn, Classical</li> <li>Fontan Procedure</li> <li>d- Transposition of the Great Vessels Repair – arterial switch operation</li> <li>d- Transposition of the Great Vessels Repair – atrial switch (Senning/Mustard)</li> <li>Truncus Arteriosus Repair</li> <li>Complete AV Septal Defect Repair</li> <li>AP Shunt</li> <li>ASD Repair</li> <li>Damus Kaye Stansel (DKS)</li> <li>Other, specify</li> </ul>
IV inotrope therapy within 48 hours of implant	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
If Yes, IV inotrope therapy agents:	<ul> <li>Dobutamine</li> <li>Dopamine</li> <li>Milrinone</li> <li>Levosimendan</li> <li>Epinephrine</li> <li>Norepinephrine</li> <li>Isoproterenol</li> <li>Other, Specify</li> <li>Unknown</li> </ul>
Interventions within 48 hours of implant	<ul> <li>IABP</li> <li>Dialysis</li> <li>Ultrafiltration</li> <li>Ventilator</li> <li>Feeding tube</li> <li>ECMO</li> <li>None</li> <li>CABG</li> <li>Aortic Valve replacement / repair</li> <li>Mitral valve replacement / repair</li> <li>Congenital card surg</li> <li>LVAD</li> <li>RVAD</li> <li>TAH</li> <li>Aneursyomectomy (DOR)</li> </ul>

Congenital Cardiac Surgery Select all that Apply:	<ul> <li>Congenitally Corrected Transposition Repair (double switch)</li> <li>Congenitally Corrected Transposition Repair (classic)</li> <li>PA Banding</li> <li>TOF/DORV/RVOTO Repair</li> <li>Ebstein's Anomaly Repair</li> <li>VSD Repair</li> <li>Norwood Stage I</li> <li>Glenn, Bi-directional</li> <li>Glenn, Classical</li> <li>Fontan Procedure</li> <li>d- Transposition of the Great Vessels Repair – arterial switch operation</li> <li>d- Transposition of the Great Vessels Repair – atrial switch (Senning/Mustard)</li> <li>Truncus Arteriosus Repair</li> <li>Complete AV Septal Defect Repair</li> <li>AP Shunt</li> <li>ASD Repair</li> <li>Damus Kaye Stansel (DKS)</li> <li>Other, specify</li> </ul>
le this implant the primary MCSD	

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

YesNo

### 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

 1 "Critical cardiogenic shock" describes a patient who is "crashing and burning", in which a patient has life-threatening hypotension and rapdily 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.	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
TCS –Temporary Circulatory Support.	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
FF – Frequent Flyer Home.	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
FF – Frequent Flyer.	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>

lemodynamics	
General Hemodynamics	
Heart rate	ST= Ounknown Not done
Systolic blood pressure	□ mmHg ST= □ Unknown ■ Not done
Diastolic blood pressure	<pre>mmHg ST= ● Unknown ● Not done</pre>
Doppler Opening Pressure	ST= OUnknown Not done Not applicable
Peripheral edema	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Ascites	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
ECG rhythm	<ul> <li>Sinus</li> <li>Atrial fibrillation</li> <li>Atrial Flutter</li> <li>Paced: Atrial pacing</li> <li>Paced: Ventricular pacing</li> <li>Paced: Atrial and ventricular pacing</li> <li>Not done</li> <li>Unknown</li> <li>Other, specify</li> </ul>
Echo Findings Mitral regurgitation	<ul> <li>0 (none)</li> <li>1 (mild)</li> <li>2 (moderate)</li> <li>3 (severe)</li> <li>Not Recorded or Not Documented</li> </ul>

Tricuspid regurgitation	<ul> <li>0 (none)</li> <li>1 (mild)</li> <li>2 (moderate)</li> <li>3 (severe)</li> <li>Not Recorded or Not Dependent of the second of the seco</li></ul>	ocumented
Aortic regurgitation	<ul> <li>0 (none)</li> <li>1 (mild)</li> <li>2 (moderate)</li> <li>3 (severe)</li> <li>Not Recorded or Not Dependent of the second of the seco</li></ul>	ocumented
	ly as "left ventricular function" or "sy	
LVEDD	ST= ONot Recorded or N	cm lot Documented
recorded as moderate, and moderate-severe would	duced, or mild decrease" would all b	be described as "right ventricular function" or "right se characterized as "mild". Again, mild-moderate would be
Swan Hemodynamics		
Pulmonary artery systolic pressure	ST= OUnknown Not done	mmHg
Pulmonary artery diastolic pressure	ST= OUnknown Not done	mmHg
Mean Pulmonary artery wedge pressure	ST= OUnknown	mmHg

Mean RA Pressure	ST= Unknown Not done	mmHg	
Central venous pressure (CVP)	ST= Unknown Not done	mmHg	
Cardiac Index	ST= OUnknown Not done	L/min/M2 (by Swan)	
Was Cardiac Index Measured by Fick or Thermodilution?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>		
Choose Method	<ul><li>Fick</li><li>Thermodilution</li></ul>		
Cardiac output	ST= Unknown Not done	L/min	
Was Cardiac Output Measured by Fick or Thermodilution?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>		
Choose Method	<ul><li>Fick</li><li>Thermodilution</li></ul>		

Sodium		~~~~~
couldin		mEq/L
	ST= OUnknown	mmol/L
	<ul> <li>Not done</li> </ul>	
Potassium		mEq/L
		mmol/L
	ST= OUnknown	
	Not done	
Blood urea nitrogen		ma/dl
		mg/dL mmol/L
	ST= OUnknown	
	Not done	
Creatinine		mg/dL
		umol/L
	ST= Ounknown	
	Not done	
SGPT/ALT (alanine		u/L
aminotransferase/ALT)	ST= OUnknown	
	Not done	
SGOT/AST (aspartate		u/L
aminotransferase/AST)	ST= OUnknown	
	<ul> <li>Not done</li> </ul>	
LDH		units/L, U/L, ukat/L
	ST= OUnknown	
	Not done	
Total bilirubin		mg/dL
		umol/L
	ST= Ounknown	
	Not done	
Albumin		g/dL
		g/L
	ST= OUnknown	、

PreImplant - Laboratory

Pre-albumin		mg/dL
		mg/L
	ST= OUnknown	iiig/L
	<ul> <li>Not done</li> </ul>	
Total Cholesterol		mg/dL
		mmol/L
	ST=	
	Unknown	
	Not done	
Brain natriuretic peptide BNP		pg/mL
		ng/L
	ST=	
	Not done	
NT pro brain natriuretic peptide Pro-		pg/mL
BNP		ng/L
	ST= OUnknown	
	<ul> <li>Not done</li> </ul>	
White blood cell count		x10 <sup>3</sup> /uL
		x10 <sup>9</sup> /L
	ST= OUnknown	
	Not done	
Hemoglobin		g/dL
		g/L
		mmol/L
	ST= OUnknown	
	Not done	
Hemoglobin A1C		%
		mmol/mol
Estimated Average Glucose (eAG):		
		mg/dL
		mmol/L
	ST= OUnknown	
	<ul> <li>Not Done</li> </ul>	
Platelets		x10 <sup>3</sup> /uL
		x10 <sup>9</sup> /L
	ST= Ounknown	
	Not done	

PreImplant - Laboratory

Sensitivity CRP (C Reactive Protein)	ST= OUnknown Not done	mg/L
Sensitivity CRP (C Reactive Protein)		ma/l
Sensitivity CRP (C Reactive Protein)		ma/l
(C Reactive Protein)		IIIg/L
	ST= Ounknown	
	Not done	
Lupus Anticoagulant	Positive	
	Negative	
	Unknown	
Uric acid		mg/dL
		umol/L
	ST= 0<1 mg/dL	
	Unknown	
	Not done	
Lymphocyte Count		%
		x10 <sup>3</sup> cells/µL
		x10 <sup>9</sup> cells/liter
	ST= OUnknown	
	Not done	
	<b>○ &lt;2%</b>	

#### **Concerns and Contraindications**

		on present?		ation for transplant listing?
				No
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$			0
0	0		0	0
Yes	No		Yes	No
$\bigcirc$	$\bigcirc$		$\bigcirc$	0
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
0	$\bigcirc$		0	0
$\bigcirc$	$\bigcirc$		$\bigcirc$	0
				No
				$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Yes	No		Yes	No
$\bigcirc$	$\bigcirc$		$\bigcirc$	0
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
0	0		0	0
	<ul> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	Image: Constraint of the sector of the se	Image: Section of the section of th	Image: Constraint of the sector of the se

nplant - Concerns and Contraindications	;				version date: 9/27/20
History Of Solid Organ Cancer	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
History Of Lymphoma Leukemia	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
History Of Bone Marrow Transplant BMT	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
History Of HIV	$\bigcirc$	0 0	$\bigcirc$	$\bigcirc$	
Chronic Infectious Concerns	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Psychosocial issues	Yes	No	Yes	No	
Limited Cognition/Understanding	$\bigcirc$	0	0	$\bigcirc$	
Limited Social Support	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Repeated Noncompliance	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
History Of Illicit Drug Use	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
History Of Alcohol Abuse	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Narcotic Dependence	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
History Of Smoking	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Currently Smoking	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Severe Depression	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Other Major Psychiatric Diagnosis	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Other Comorbidity <b>HIV History</b>	0	0	0	0	
HIV Diagnosis Date		= OUnknown Not Done			
Plasma HIV-1 RNA (Viral load) - Closest to implant	ST	= Not Done	copies	/ml	
CD4 T-Cell Count - Closest to implant	ST	= Not Done	cells/n	ım3	
Erythrocyte Sedimentation Rate (ESR)	ST	= ONot Done	mm/hr		
C-Reactive Protein (CRP)	ST	= ONot Done	mg/L		
Antiretroviral Therapy		Abacavir (ABC) / Z Atripla (FTC/EDV/ Atazanavir (ATV) / Combivir (3TC/ZD Complera (FTC/RI Darunavir (DRV) / Delavirdine (DLV) Didanosine (ddl) / Dolutegravir / Tivic Efavirenz (EFV) / S	TDF) Reyataz V) PV/TDF) Prezista / Rescriptor Videx EC ay		

	<ul> <li>Emtricitabine (FTC) / Emtriva</li> <li>Enfuvirtide (T20) / Fuzeon</li> <li>Epzicom (3TC/ABC)</li> <li>Etravirine (ETR) / Intelence</li> <li>Fosamprenavir (FPV) / Lexiva</li> <li>Indinavir (IDV) / Crixivan</li> <li>Kaletra (LPV/r)</li> <li>Lamivudine (3TC) / Epivir</li> <li>Maraviroc (MVC) / Selzentry</li> <li>Nelfinavir (NFV) / Viracept</li> <li>Nevirapine (NVP) / Viramune / Viramune XR</li> <li>Raltegravir (RAL) / Isentress</li> <li>Rilpivirine (RPV) / Edurant</li> <li>Ritonavir (SQV) / Invirase</li> <li>Stavudine (d4T) / Zerit</li> <li>Stribild (FTC/EVG/COBI/TDF)</li> <li>Tenofovir Disoproxil Fumarate (TDF) / Viread</li> <li>Tipranivir (TPV) / Aptivus</li> <li>Trizivir (3TC/ZDV/ABC)</li> <li>Truvada (FTC/TDF)</li> <li>Zidovudine (ZDV) / Retrovir</li> <li>Unknown</li> <li>None</li> </ul>
Infection Prophylaxis	<ul> <li>Atovaquone</li> <li>Azithromycin</li> <li>Dapsone</li> <li>Fluconazole</li> <li>Pentamidine, aerosolized</li> <li>Trimethroprim-sulfamethoxazole (TMP-SMX)</li> <li>Unknown</li> <li>None</li> </ul>
History of Opportunistic Infection	<ul> <li>Cryptococcosis</li> <li>Cytomegalovirus (CMV)</li> <li>Epstein Barr virus (EBV)</li> <li>Esophageal candidiasis</li> <li>Histoplasmosis</li> <li>Kaposi's sarcoma</li> <li>Mycobacterium avium complex (MAC), disseminated</li> <li>Pneumocystis jiroveci (carinii) pneumonia (PCP)</li> <li>Toxoplasmosis</li> <li>Tuberculosis</li> <li>None</li> </ul>
History of Hepatitis B	<ul> <li>Positive</li> <li>Negative</li> <li>ST= Unknown</li> <li>Not Done</li> </ul>
History of Hepatitis C	<ul> <li>Positive</li> <li>Negative</li> <li>ST= Unknown</li> <li>Not Done</li> </ul>

Medications	
Allopurinol	<ul> <li>Currently using</li> <li>Known previous use (within past year)</li> <li>No</li> <li>Unknown</li> </ul>
Angiotensin receptor blocker drug	<ul> <li>Currently using</li> <li>Known previous use (within past year)</li> <li>No</li> <li>Unknown</li> </ul>
Amiodarone	<ul> <li>Currently using</li> <li>Known previous use (within past year)</li> <li>No</li> <li>Unknown</li> </ul>
ACE inhibitors	<ul> <li>Currently using</li> <li>Known previous use (within past year)</li> <li>No</li> <li>Unknown</li> </ul>
Beta-blockers	<ul> <li>Currently using</li> <li>Known previous use (within past year)</li> <li>No</li> <li>Unknown</li> </ul>
Aldosterone antagonist	<ul> <li>Currently using</li> <li>Known previous use (within past year)</li> <li>No</li> <li>Unknown</li> </ul>
Warfarin (coumadin)	<ul> <li>Currently using</li> <li>Known previous use (within past year)</li> <li>No</li> <li>Unknown</li> </ul>
Antiplatelet therapy drug	<ul> <li>Currently using</li> <li>Known previous use (within past year)</li> <li>No</li> <li>Unknown</li> </ul>
Nesiritide	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Nitric oxide	O Yes

PreImplant - Medications

	Unknown	
Loop diuretics	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
lf yes, enter dosage	ST= OUnknown	mg/day
Type of Loop Diuretic:	<ul><li>Furosemide</li><li>Torsemide</li><li>Bumetanide</li><li>Other</li></ul>	
Outpatient (prior to admission) inotrope infusion:	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
ardiac Resynchronization Therapy (CRT)	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
s patient on Metalozone/Thiazide?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	
If yes, then select (check one):	<ul><li>Regular</li><li>Intermittent</li></ul>	
Is patient on Phosphodiesterase inhibitors?	<ul><li>Yes</li><li>No</li><li>Unknown</li></ul>	

ality Of Life OL surveys cannot be administered after th	ne visit date)
ıroQol (EQ-5D)	
Did the patient complete a EuroQol form?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
How was the test administered?	<ul> <li>Self-administered</li> <li>Coordinator administered</li> <li>Family member administered</li> </ul>
Mobility:	<ul> <li>I have no problems in walking about</li> <li>I have some problems in walking about</li> <li>I am confined to bed</li> <li>Unknown</li> </ul>
Self care:	<ul> <li>I have no problems with self-care</li> <li>I have some problems washing or dressing myself</li> <li>I am unable to wash or dress myself</li> <li>Unknown</li> </ul>
Usual Activities (e.g. work, study, housework, family or leisure activities)	<ul> <li>I have no problems with performing my usual activities</li> <li>I have some problems with performing my usual activities</li> <li>I am unable to perform my usual activities</li> <li>Unknown</li> </ul>
Pain/discomfort:	<ul> <li>I have no pain or discomfort</li> <li>I have moderate pain or discomfort</li> <li>I have extreme pain or discomfort</li> <li>Unknown</li> </ul>
Anxiety/depression:	<ul> <li>I am not anxious or depressed</li> <li>I am moderately anxious or depressed</li> <li>I am extremely anxious or depressed</li> <li>Unknown</li> </ul>
Patient Visual Analog Status (VAS):	(0-100) 0=Worst, 100=Best ST=
Which of the following best describes your *one* main activity?	<ul> <li>Actively working</li> <li>Retired</li> <li>Keeping house</li> <li>Student</li> <li>Seeking work</li> <li>Too sick to work (disabled)</li> </ul>

	<ul> <li>Unknown</li> <li>Other</li> </ul>
Is this *one* main activity considered:	<ul> <li>Full time</li> <li>Part time</li> <li>Unknown</li> </ul>
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= OUnknown
Have you unintentionally lost more than 10 pounds in the last year?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Do you currently smoke cigarettes?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
If Yes, How many cigarettes are you currently smoking, on average?	<ul> <li>Half a pack or less per day</li> <li>More than half to 1 pack per day</li> <li>1 to 2 packs per day</li> <li>2 or more packs per day</li> </ul>
Do you currently smoke e- cigarettes?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
lease enter a number from 1 to 1	LO for the questions below:
How much stress related to your health issues do you feel you've been under during the past month?	ST= OUnknown
How well do you feel you've been coping with or handling your stress related to your health issues during the past month?	ST= OUnknown
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= OUnknown
How satisfied are you with the outcome of your therapy for heart failure during the past 3 months?	ST= OUnknown
If No, Please select a reason why the EuroQol (EQ-5D) was not completed:	<ul> <li>Too sick (ex., intubated/sedated, critically ill, on short-term VAD)</li> <li>Too tired</li> </ul>

plant - Quality of Life	version date: 9/27/2
	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
	<ul> <li>Unable to read English and/or illiterate</li> <li>Administrative (check and ciffs reasons holese)</li> </ul>
	Administrative (check specific reason below)
If Administrative: Select a specific	Urgent/emergent implant, no time to administer QOL instruments
reason:	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)
ansas City Cardiomyopathy Ques	tionnaire
Did the patient complete a KCCQ form?	• Yes
TOTTI ?	○ No
How was the test administered?	Self-administered
	Coordinator administered
fatigue. Please indicate how much you	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in</li> </ul>
	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in</li> </ul>
fatigue. Please indicate how much you your ability to do the following activities	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in s over the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> </ul>
fatigue. Please indicate how much you your ability to do the following activities	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in s over the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> </ul>
fatigue. Please indicate how much you your ability to do the following activities	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in s over the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Not at all limited</li> </ul>
fatigue. Please indicate how much you your ability to do the following activities	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in s over the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> </ul>
fatigue. Please indicate how much you your ability to do the following activities	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Not at all limited</li> <li>Limited for other reasons or did not do the activity</li> </ul>
fatigue. Please indicate how much you your ability to do the following activitie Showering/Bathing	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Not at all limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> </ul>
fatigue. Please indicate how much you your ability to do the following activitie Showering/Bathing	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Not at all limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> <li>Extremely limited</li> </ul>
fatigue. Please indicate how much you your ability to do the following activitie Showering/Bathing	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Unknown</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Quite a bit limited</li> <li>Slightly limited</li> </ul>
fatigue. Please indicate how much you your ability to do the following activitie Showering/Bathing	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Slightly limited</li> <li>Slightly limited</li> <li>Slightly limited</li> <li>Moderately limited</li> <li>Moderately limited</li> <li>Not at all limited</li> <li>Moderately limited</li> <li>Not at all limited</li> <li>Moderately limited</li> <li>Not at all limited</li> <li>Slightly limited</li> <li>Not at all limited</li> </ul>
fatigue. Please indicate how much you your ability to do the following activitie Showering/Bathing	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Slightly limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Not at all limited</li> <li>Slightly limited</li> <li>Not at all limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Slightly limited</li> <li>Slightly limited</li> <li>Slightly limited</li> <li>Limited for other reasons or did not do the activity</li> </ul>
fatigue. Please indicate how much you your ability to do the following activitie Showering/Bathing	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Slightly limited</li> <li>Slightly limited</li> <li>Slightly limited</li> <li>Moderately limited</li> <li>Moderately limited</li> <li>Not at all limited</li> <li>Moderately limited</li> <li>Moderately limited</li> <li>Moderately limited</li> <li>Not at all limited</li> <li>Slightly limited</li> <li>Not at all limited</li> </ul>
fatigue. Please indicate how much you your ability to do the following activitie Showering/Bathing	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> <li>Extremely limited</li> <li>Slightly limited</li> <li>Slightly limited</li> <li>Moderately limited</li> <li>Quite a bit limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> <li>Extremely limited</li> <li>Slightly limited</li> <li>Not at all limited</li> <li>Moderately limited</li> <li>Unknown</li> <li>Extremely limited</li> <li>Unknown do the activity</li> <li>Unknown</li> <li>Extremely limited</li> <li>Mot at all limited</li> <li>Slightly limited</li> <li>Unknown</li> <li>Extremely limited</li> <li>Limited for other reasons or did not do the activity</li> <li>Unknown</li> <li>Extremely limited</li> </ul>
fatigue. Please indicate how much you your ability to do the following activities Showering/Bathing Walking 1 block on level ground Hurrying or jogging	<ul> <li>Family member administered</li> <li>different ways. Some feel shortness of breath while others feel are limited by heart failure (shortness of breath or fatigue) in sover the past 2 weeks.</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Slightly limited</li> <li>Unknown</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Slightly limited</li> <li>Unknown</li> <li>Extremely limited</li> <li>Slightly limited</li> <li>Moderately limited</li> <li>Moderately limited</li> <li>Unknown</li> <li>Extremely limited</li> <li>Slightly limited</li> <li>Moderately limited</li> <li>Moderately limited</li> <li>Unknown</li> <li>Extremely limited</li> <li>Unknown</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Unknown</li> <li>Extremely limited</li> <li>Quite a bit limited</li> <li>Quite a bit limited</li> <li>Quite a bit limited</li> <li>Moderately limited</li> <li>Slightly limited</li> <li>Quite a bit limited</li> </ul>
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#### PreImplant - Quality of Life

Dant - Quality of Life		version date. 9/2//2
Over the past 2 weeks, how many	Every morning	
times did you have swelling in your	I or more times a week, but not every day	
feet, ankles or legs when you woke	<ul> <li>1-2 times a week</li> </ul>	
up in the morning?	<ul> <li>Less than once a week</li> </ul>	
	<ul> <li>Never over the past 2 weeks</li> </ul>	
	Ulikilowii	
Over the past 2 weeks, on average,	○ All of the time	
how many times has fatigue limited	Several times per day	
your ability to do what you want?	<ul> <li>At least once a day</li> </ul>	
	<ul> <li>3 or more times per week but not every day</li> </ul>	
	<ul> <li>1-2 times per week</li> </ul>	
	<ul> <li>Less than once a week</li> </ul>	
	<ul> <li>Never over the past 2 weeks</li> </ul>	
Over the past 2 weeks, on average,	All of the time	
how many times has shortness of	Several times per day	
breath limited your ability to do what you wanted?	At least once a day	
what you wanted?	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 next 2 weeks on average		
Over the past 2 weeks, on average, how many times have you been	Every night	
forced to sleep sitting up in a chair	3 or more times a week, but not every day	
or with at least 3 pillows to prop you	1-2 times a week	
up because of shortness of breath?	Less than once a week	
	Never over the past 2 weeks	
	Unknown	
Over the past 2 weeks, how much	It has extremely limited my enjoyment of life	
has your heart failure limited your	It has limited my enjoyment of life quite a bit	
enjoyment of life?	It has moderately limited my enjoyment of life	
	<ul> <li>It has slightly limited my enjoyment of life</li> </ul>	
	<ul> <li>It has not limited my enjoyment of life at all</li> </ul>	
	Unknown	
If you had to spend the rest of your	<ul> <li>Not at all satisfied</li> </ul>	
life with your heart failure the way it is right now, how would you feel	Mostly dissatisfied	
about this?	Somewhat satisfied	
	Mostly satisfied	
	Completely satisfied	

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

		feet
	ST= ONot done: too sick	
	Not done: other	
	Unknown	
instructed to walk steadily to cover as much distar 6 minutes. The staff member performing the test s	nce as possible during the 6 minutes. hould walk behind the patient to avoid <b>: You may use the time from the firs</b>	bly as long as possible to avoid frequent turns. Patients a They are advised that they may stop if necessary during d undue influence on the pace. The distance covered dur st 15 feet of the 6minute walk for the Gait speed test
Gait Speed (1st 15 foot walk)		seconds
,	ST= ONot done: too sick	
	<ul> <li>Not done: other</li> </ul>	
stopwatch. NOTE: You may use the time from the		- 
Peak VO2 Max		mL/kg/min
	ST= ONot done: too sick	
exercise testing either on a bicycle or treadmill. Th	Not done: other Unknown Unknown e during exercise (mL/kg/min) is the e values recorded during the bicycle	nl/kg/min of oxygen consumed during symptom-limited are usually 1-2 ml/min lower than for the treadmill, but it
exercise testing either on a bicycle or treadmill. Th	Not done: other Unknown Unknown e during exercise (mL/kg/min) is the e values recorded during the bicycle	
exercise testing either on a bicycle or treadmill. Th	Not done: other Unknown Unknown e during exercise (mL/kg/min) is the e values recorded during the bicycle	are usually 1-2 ml/min lower than for the treadmill, but it
exercise testing either on a bicycle or treadmill. Th assumed that most institutions will use only one in	Not done: other Unknown Unknown e during exercise (mL/kg/min) is the e values recorded during the bicycle	are usually 1-2 ml/min lower than for the treadmill, but it cycle is preferable as the mode easiest to standardize.
exercise testing either on a bicycle or treadmill. Th assumed that most institutions will use only one in	Not done: other Unknown Unknown Ne during exercise (mL/kg/min) is the te values recorded during the bicycle strument. If both are available, the bic	are usually 1-2 ml/min lower than for the treadmill, but it cycle is preferable as the mode easiest to standardize.
exercise testing either on a bicycle or treadmill. Th assumed that most institutions will use only one in <b>R Value at peak</b>	Not done: other Unknown Unknown Unknown Unknown Unknown Unknown Unknown ST= Unknown Not done Unknown	are usually 1-2 ml/min lower than for the treadmill, but it it is cycle is preferable as the mode easiest to standardize.
exercise testing either on a bicycle or treadmill. Th assumed that most institutions will use only one in <b>R Value at peak</b> R Value at peak is the respiratory quotient of carb the patient exercised. A value above 1.05 is gener	Not done: other Unknown Unknown Unknown Unknown Unknown Unknown Unknown ST= Unknown Not done Unknown	are usually 1-2 ml/min lower than for the treadmill, but it cycle is preferable as the mode easiest to standardize.
exercise testing either on a bicycle or treadmill. Th assumed that most institutions will use only one in <b>R Value at peak</b> R Value at peak is the respiratory quotient of carb- the patient exercised. A value above 1.05 is gener ailmaking	<ul> <li>Not done: other</li> <li>Unknown</li> <li>He values recorded during the bicycle istrument. If both are available, the bid</li> <li>ST= Unknown</li> <li>Not done</li> <li>Not done</li> </ul>	are usually 1-2 ml/min lower than for the treadmill, but it it sycle is preferable as the mode easiest to standardize.
exercise testing either on a bicycle or treadmill. Th assumed that most institutions will use only one in <b>R Value at peak</b> R Value at peak is the respiratory quotient of carb- the patient exercised. A value above 1.05 is gener ailmaking	<ul> <li>Not done: other</li> <li>Unknown</li> <li>he during exercise (mL/kg/min) is the file values recorded during the bicycle strument. If both are available, the bid</li> <li>ST= Unknown</li> <li>Not done</li> <li>Not done</li> <li>On dioxide production divided by oxyg rally considered to represent an adequirally considered to represent an adequirally completed</li> </ul>	are usually 1-2 ml/min lower than for the treadmill, but it it sycle is preferable as the mode easiest to standardize.
exercise testing either on a bicycle or treadmill. Th assumed that most institutions will use only one in <b>R Value at peak</b> R Value at peak is the respiratory quotient of carb- the patient exercised. A value above 1.05 is gener ailmaking	<ul> <li>Not done: other</li> <li>Unknown</li> <li>He values recorded during the bicycle strument. If both are available, the bid</li> <li>ST= Unknown</li> <li>Not done</li> <li>Not done</li> <li>Completed</li> <li>Attempted but not comp</li> </ul>	are usually 1-2 mi/min lower than for the treadmill, but it it sycle is preferable as the mode easiest to standardize.
exercise testing either on a bicycle or treadmill. Th assumed that most institutions will use only one in <b>R Value at peak</b> R Value at peak is the respiratory quotient of carb- the patient exercised. A value above 1.05 is gener ailmaking	<ul> <li>Not done: other</li> <li>Unknown</li> <li>He values recorded during the bicycle istrument. If both are available, the bid</li> <li>ST= Unknown</li> <li>Not done</li> <li>Not done</li> <li>Completed</li> <li>Attempted but not comp</li> <li>Not attempted</li> </ul>	are usually 1-2 mi/min lower than for the treadmill, but it cycle is preferable as the mode easiest to standardize. % en consumption, and is used as an index of how vigorou uate effort.
exercise testing either on a bicycle or treadmill. Th assumed that most institutions will use only one in <b>R Value at peak</b> R Value at peak is the respiratory quotient of carb the patient exercised. A value above 1.05 is gener ailmaking Status:	<ul> <li>Not done: other</li> <li>Unknown</li> <li>He values recorded during the bicycle istrument. If both are available, the bid</li> <li>ST= Unknown</li> <li>Not done</li> <li>Not done</li> <li>Completed</li> <li>Attempted but not comp</li> <li>Not attempted</li> </ul>	are usually 1-2 mi/min lower than for the treadmill, but it cycle is preferable as the mode easiest to standardize. % en consumption, and is used as an index of how vigorou uate effort.

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

Screening Log - Intermacs		
Implant Date		
Inclusion: Patient must meet all inc	clusion criteria:	
	culatory support device (MCSD) which is FDA approved device does not need to be the first implant for the patient) egistry	
Exclusion: Any exclusion will disqua	alify the patient for entry into INTERMACS®	
<ul> <li>Patient receives a durable mechanical cir</li> <li>Patient is incarcerated (prisoner)</li> <li>Patient did not sign the informed consent</li> </ul>	culatory support device (MCSD) which is not FDA approved	
Device type	O LVAD	
	© RVAD	
	<ul> <li>Both (LVAD + RVAD in the same OR visit)</li> <li>Total Artificial Heart</li> </ul>	
Device brand	Berlin Heart EXCOR (paracorporeal)	
	<ul> <li>HeartWare HVAD</li> <li>HeartMate II LVAS</li> </ul>	
	HeartMate III	
	HeartMate IP	
	HeartMate VE     HeartMate XV/E	
	<ul> <li>HeartMate XVE</li> <li>Micromed DeBakey VAD - Child</li> </ul>	
	O Novacor PC	
	O Novacor PCq	
	<ul> <li>Thoratec IVAD</li> <li>Thoratec PVAD</li> </ul>	
	Other, Specify	
Specify brand		
Device brand (RVAD)		
Specify brand (RVAD)		
Age Range	● 19 to 39	
	0 40 to 59	
	<ul> <li>○ 60 to 79</li> <li>○ 80+</li> </ul>	

Screening Log

Race	<ul> <li>American Indian or Alaska Native</li> <li>Asian</li> <li>African-American or Black</li> <li>Hawaiian or other Pacific Islander</li> <li>White</li> <li>Unknown / Undisclosed</li> <li>Other / none of the above</li> </ul>
Ethnicity: Hispanic or Latino	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
Gender	<ul> <li>Male</li> <li>Female</li> <li>Unspecified</li> </ul>
Did death occur within 2 days post implant?	<ul><li>Yes</li><li>No</li></ul>
Is this VAD an investigational device?	<ul><li>Yes</li><li>No</li></ul>
Is patient involved in a VAD related study?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>
What is the name of the study?	
Is this an industry sponsored post approval study?	<ul> <li>Yes</li> <li>No</li> <li>Unknown</li> </ul>

Transfer Form - Intermacs				
Transferred Care to another hospital	Yes No			
Date transferred care	ST= Unknown			

#### Withdraw Consent - Intermacs

Did the patient withdraw consent?

$\bigcirc$	Yes
	No

Date of withdrawn consent:

[				
l				