

Intermacs

# 1 Month Followup

## Followup Status

**Select one of the following**

- Inpatient
- Outpatient
- Other Facility
- Unable to obtain follow-up information

**Follow-up date**

MM/DD/YYYY

**Facility Type**

- Nursing Home/Assisted Care
- Hospice
- Another hospital
- Rehabilitation Facility
- Unknown

**State reason why you are unable to obtain follow-up information**

- Patient didn't come to clinic
- Not able to contact patient
- Not addressed by site

**Was patient intubated since implant?  
(This includes all time since last follow-up.)**

- Yes
- No
- Unknown

**Was patient on dialysis since implant?  
(This includes all time since last follow-up.)**

- Yes
- No
- Unknown

**Since the last follow-up has the patient tested positive for COVID-19?**

- Yes
- No
- Unknown

**If yes, select all symptoms that apply:**

- Cough
- Diarrhea
- Fever
- Anosmia (loss of sense of smell)
- Sore Throat
- Difficulty Breathing
- None
- Other, Specify

**If yes, select all interventions that apply:**

- Intubation
- New Inotropes
- ECMO
- Dialysis
- RVAD
- None
- Other, Specify

**If yes, select all therapies the patient received (select all that apply):**

- Hydroxychloroquine  
 Azithromycin  
 Immunoglobulin  
 Anti-viral therapy  
 None  
 Other, Specify

**Anti-viral therapy, specify:**

## Pump Change

### Pump Exchange

Was there a pump exchange of a para- or extra- corporeal pump? (Example PVAD, Berlin Heart)

- Yes  
 No  
 Unknown

### Pump Exchange Reason

- Thrombus not associated with hemolysis  
 Change in hemodynamics  
 Clinical status  
 Device parameters (please enter Device Malfunction Form)  
 Upsizing device because of patient growth status

**Was there a Console Change? (For TAH or Berlin Heart Consoles)**

- Yes  
 No  
 Unknown

**Date of console change**

MM/DD/YYYY

ST=  Unknown

**Original Console Name**

**New Console Name**

## Medical Condition

### NYHA Class

New York Heart Association Class for heart failure

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

## ZONES

### Hemolysis Zone

Information that you provide in this section will be used to assess the existence of hemolysis and its degree.

**Note:** You may enter either the PFH or LDH.

**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=  Unknown  
 Not Done

**Please enter the peak serum lactate dehydrogenase (LDH) since the last visit:**

ST=  Unknown  
 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 or HGB since the last visit.

**Min. HCT:**

ST=  Unknown  
 Not Done

**Max. HCT:**

ST=  Unknown  
 Not Done

**Min. HGB:**

ST=  Unknown  
 Not Done

**Max. HGB:**

ST=  Unknown  
 Not Done

**Highest Total Bilirubin since the last visit:**

ST=  Unknown  
 Not Done

Has the following been present at any time since the last visit?

Physical Findings:

**Hemoglobinuria (Tea-Colored Urine)?**

Yes  
 No  
 Unknown

**Pump malfunction and/or abnormal pump parameters?**

Yes  
 No  
 Unknown

### Right Heart Failure Zone

Information that you provide in this section will be used to assess the existence of right heart failure and its degree.

Clinical Findings – Since the last visit.

**CVP or RAP > 16 mmHg?**

- Yes  
 No  
 Unknown  
 Not Done

**Dilated Vena Cava with absence of Inspiratory Variation by Echo (If absence of Inspiratory Variation is not documented, Check No)?**

- Yes  
 No  
 Unknown  
 Not Done

**Clinical findings of elevated jugular venous distension at least half way up the neck in an upright patient (If  $\geq 6$  cm, Check Yes)?**

- Yes  
 No  
 Unknown

**Peripheral Edema (If  $\geq 2$ , Check Yes)?**

- Yes  
 No  
 Unknown

**Ascites?**

- Yes  
 No  
 Unknown

**Has the patient been on Inotropes since the last visit?**

- Yes  
 No  
 Unknown

**If yes, select all that apply:**

- Dopamine  
 Dobutamine  
 Milrinone  
 Isoproterenol  
 Epinephrine  
 Norepinephrine  
 Levosimendan  
 Unknown

**Nesiritide?**

- Yes  
 No  
 Unknown

**Did the patient have an RVAD implanted since the last follow-up?**

- Yes  
 No  
 Unknown

**Has the patient experienced a Neurological Event since time of implant?**

- Yes  
 No  
 Unknown

**Note:** This applies only to patients who have had a CVA, TIA or Anoxic Brain Injury.

If yes, you may enter either the Modified Rankin Scale and/or the NIH Stroke Scale.

**Modified Rankin Scale**

Please [click here](#) for further instruction on administering the Modified Rankin Scale in Appendix I.

- 0 – No symptoms at all  
 1 - No Significant disability: despite symptoms: able to carry out all usual duties and activities  
 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.
- 4 - Moderately severe disability: unable to walk without assistance, and unable to attend to own bodily needs without assistance.
- 5 - Severe disability: bedridden, incontinent and requiring constant nursing care and attention.
- 6 - Dead
- ST=  Not Documented
- Not Done

**NIH Stroke Scale**

Please [click here](#) for further instruction on administering the NIHSS in Appendix I.

- 0: No Stroke
- 1-4: Minor Stroke
- 5-15: Moderate Stroke
- 16-20: Moderate to Severe Stroke
- 21-42: Severe Stroke
- ST=  Not Documented
- Not Done

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## Hemodynamics

### General Hemodynamics

During report interval

**Heart rate**

beats per min

- ST=  Unknown  
 Not done

**Systolic blood pressure**

mmHg

- ST=  Unknown  
 Not done

**Diastolic blood pressure**

mmHg

- ST=  Unknown  
 Not done

**Doppler Opening Pressure**

Record the pressure on the BP cuff at the time of sound on the doppler as the cuff is released and this is the Doppler opening pressure which may correspond to the MAP.

- ST=  Unknown  
 Not done  
 Not applicable

**ECG rhythm**

Cardiac rhythm

- Sinus  
 Atrial fibrillation  
 Atrial Flutter  
 Paced: Atrial pacing  
 Paced: Ventricular pacing  
 Paced: Atrial and ventricular pacing  
 Not done  
 Unknown  
 Other, specify

**Weight**

Enter the weight of the patient at the time of follow-up in the appropriate space, in pounds or kilograms. The weight must fall between 5 and 600 pounds or 2 and 273 kilograms.

lbs

kg

- ST=  Unknown  
 Not done

### Echo Findings

During report interval

**Mitral regurgitation**

Mitral regurgitation should be recorded on a qualitative scale (if 'trivial' then assign as mild). Moderate-severe would be recorded as "severe".

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

**Tricuspid regurgitation**

Tricuspid regurgitation should be recorded on a qualitative scale (if 'trivial' then assign as mild). Moderate-severe would be recorded as "severe".

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

**Aortic regurgitation**

Aortic regurgitation should be recorded on a qualitative scale (if 'trivial' then assign as mild). Moderate-severe would be recorded as "severe".

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

**LVEF**

**Left ventricular ejection fraction**

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

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

**LVEDD**

**Left ventricular end-diastolic dimension**

cm

ST=  Not Recorded or Not Documented

**RVEF**

- Normal  
 Mild  
 Moderate  
 Severe  
 Not Done  
 Not Applicable  
 Unknown

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

**Swan Hemodynamics**

During report interval

**Pulmonary artery systolic pressure**

mmHg

ST=  Unknown

Not done

**Pulmonary artery diastolic pressure**

mmHg

ST=  Unknown

Not done

**Mean RA Pressure**

mmHg

ST=  Unknown

Not done

**Central venous pressure (CVP)**

mmHg

ST=  Unknown  
 Not done

**Mean Pulmonary artery wedge pressure**

mmHg

ST=  Unknown  
 Not done

**Cardiac Index**

L/min/M<sup>2</sup> (by Swan)

ST=  Unknown  
 Not done

**Was Cardiac Index Measured by Fick or Thermodilution?**

Yes  
 No  
 Unknown

**Choose Method**

Fick  
 Thermodilution

**Cardiac output**

Liters/min

ST=  Unknown  
 Not done

**Was Cardiac Output Measured by Fick or Thermodilution?**

Yes  
 No  
 Unknown

**Choose Method**

Fick  
 Thermodilution



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## Medications

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**Hydralazine**  Yes  
 No  
 Unknown

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**Calcium channel blockers**  Yes  
 No  
 Unknown

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**Angiotensin receptor blocker drug**  Yes  
 No  
 Unknown

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**Amiodarone**  Yes  
 No  
 Unknown

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**ACE inhibitors**  Yes  
 No  
 Unknown

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**Thrombolytic**  Yes  
 No  
 Unknown

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**Beta-blockers**  Yes  
 No  
 Unknown

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**Aldosterone antagonist**  Yes  
 No  
 Unknown

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**Low molecular weight heparin  
(Lovenox, Fragmin, Innohep)**  Yes  
 No  
 Unknown

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**UFH: Unfractionated Heparin**  Yes  
 No  
 Unknown

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**Warfarin (coumadin)**  Yes  
 No  
 Unknown

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**Arixtra (fondaparinux)**  Yes  
 No  
 Unknown

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**Antiplatelet therapy drug**  Yes  
 No

**Select drug(s)**

- Unknown
- Aspirin
- Dextran
- Dipyridamole
- Clopidogrel
- Ticlopidine
- Unknown
- Other, specify

**Nitric oxide**

Document Flolan here

- Yes
- No
- Unknown

**Phosphodiesterase inhibitor**

Please enter only for the indication of Pulmonary Hypertension or Right Heart Failure

- Yes
- No
- Unknown

**Digoxin**

- Yes
- No
- Unknown

**Loop diuretics**

- Yes
- No
- Unknown

**If yes, enter dosage:**

 mg/day

ST=  Unknown

**Type of Loop Diuretic:**

- Furosemide
- Torsemide
- Bumetanide
- Other

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## Laboratory

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

ST=  Unknown  
 Not Done

**Bilirubin indirect**

mg/dL  
 umol/L

ST=  Unknown  
 Not Done

**Albumin**

g/dL  
 g/L

ST=  Unknown  
 Not done

**Pre-albumin**

mg/dL  
 mg/L

ST=  Unknown  
 Not done

**Total Cholesterol**

If value is outside given range, please see 'Status (ST=)'  
drop down field.  
If < 50 mg/dl, select from the 'Status (ST=)' drop down field.

mg/dL  
 mmol/L

ST=  < 50 mg/dL  
 Unknown  
 Not done

**Brain natriuretic peptide BNP**

If value is outside given range, please see 'status (ST=)'  
drop down field.  
If > 7500 pg/mL, select from the 'Status (ST=)' drop down  
field.

pg/ml  
 ng/L

ST=  > 7500 pg/mL  
 Unknown  
 Not done

**NT pro brain natriuretic peptide Pro-BNP**

pg/ml  
 ng/L

ST=  Unknown  
 Not done

**White blood cell count**

x10<sup>3</sup>/uL  
 x10<sup>9</sup>/L

ST=  Unknown  
 Not done

**Reticulocyte count**

%

ST=  Unknown  
 Not Done

**Hemoglobin**

g/dL  
 g/L

mmol/LST=  Unknown Not done**Hemoglobin A1C** % mmol/mol**Estimated Average Glucose (eAG):** mg/dL mmol/LST=  Unknown Not Done**Platelets** x10<sup>3</sup>/uL x10<sup>9</sup>/LST=  Unknown Not done**INR** international unitsST=  Unknown Not done**Plasma-free hemoglobin** mg/dL g/LST=  Unknown Not Done**Positive antiheparin/platelet antibody (HIT)** Yes No Unknown**If Yes, are they on direct thrombin inhibitors** Yes No Unknown**If Yes, Enter Drugs:** Plavix Heparin Coumadin Direct thrombin inhibitors (ex: arg, lip, val...) Aspirin Dipyridamole**Was a TEG done?** Yes No Unknown**ThrombElastoGraph Hemostasis System (TEG) profile, MA k** max amplitude in kaolinST=  Unknown Not Done**ThrombElastoGraph Hemostasis** reaction time in kaolin

**System (TEG) profile, R k**

ST=  Unknown  
 Not Done

**ThrombElastoGraph  
HemostasisSystem (TEG) profile, R h**

reaction time w/heparinase  
ST=  Unknown  
 Not Done

**CRP or hs-CRP**  
C Reactive Protein

mg/dL  
ST=  Unknown  
 Not done

**Lupus Anticoagulant**

Positive  
 Negative  
 Unknown

**Uric acid**

mg/dL  
 umol/L  
ST=  <1 mg/dL  
 Unknown  
 Not done