

Intermacs

1 Week Followup

Followup Status (1 Week Followup (+/- 3 days))

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 Post-Op Day 4:

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 Post-Op Day 4:

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 Post-Op Day 4.

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 Post-Op Day 4:

ST= ☐ Unknown
☐ Not Done

Has the following been present at any time since Post-Op Day 4?
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 ≥ 6 cm, Check Yes)?

- ☐ Yes
☐ No
☐ Unknown

Peripheral Edema (If ≥ 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/M² (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

Mark whether the medications have been used during the follow-up period (since implant).

Angiotensin receptor blocker drug	☐ Yes ☐ No ☐ Unknown
Amiodarone	☐ Yes ☐ No ☐ Unknown
ACE inhibitors	☐ Yes ☐ No ☐ Unknown
Thrombolytic	☐ Yes ☐ No ☐ Unknown
Beta-blockers	☐ Yes ☐ No ☐ Unknown
Aldosterone antagonist	☐ Yes ☐ No ☐ Unknown
Low molecular weight heparin (Lovenox, Fragmin, Innohep)	☐ Yes ☐ No ☐ Unknown
UFH: Unfractionated Heparin	☐ Yes ☐ No ☐ Unknown
Warfarin (coumadin)	☐ Yes ☐ No ☐ Unknown
Arixtra (fondaparinux)	☐ Yes ☐ No ☐ Unknown
Antiplatelet therapy drug	☐ Yes ☐ No ☐ Unknown
Select drug(s)	☐ Aspirin ☐ Dextran ☐ Dipyridamole ☐ Clopidogrel ☐ Ticlopidine

☐ Unknown

☐ Other, specify

Nitric oxide

☐ Yes

Document Flolan here

☐ No

☐ Unknown

Phosphodiesterase inhibitor

☐ Yes

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

☐ 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

Sodium

mEq/L

mmol/L

ST= ☐ Unknown

☐ Not done

Potassium

mEq/L

mmol/L

ST= ☐ Unknown

☐ Not done

Blood urea nitrogen

mg/dL

mmol/L

ST= ☐ Unknown

☐ Not done

Creatinine

mg/dL

umol/L

ST= ☐ Unknown

☐ Not done

SGPT/ALT
(alanine aminotransferase/ALT)

u/L

ST= ☐ Unknown

☐ Not done

SGOT/AST
(aspartate aminotransferase/AST)

u/L

ST= ☐ Unknown

☐ Not done

LDH

units/L, U/L, ukat/L

ST= ☐ Unknown

☐ Not done

Total bilirubin

mg/dL

umol/L

ST= ☐ Unknown

☐ Not done

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

x10³/uL

x10⁹/L

ST= ☐ Unknown
☐ Not done

Reticulocyte count

%

ST= ☐ Unknown
☐ Not Done

Hemoglobin

g/dL

g/L

mmol/L

ST= Unknown

Not done

Hemoglobin A1C

%

mmol/mol

Estimated Average Glucose (eAG):

mg/dL

mmol/L

ST= Unknown

Not Done

Platelets

x10³/uL

x10⁹/L

ST= Unknown

Not done

INR

international units

ST= Unknown

Not done

Plasma-free hemoglobin

mg/dL

g/L

ST= 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 kaolin

ST= 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