

Adverse Event - Pedimacs 11/07/2024

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Adverse Event Status

Please enter the date of the event you are reporting:

Please enter a label describing this event:

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Rehospitalization

Was there an occurrence of rehospitalization? Yes
 No

Date of admission

ST= Unknown

Discharge Date

ST= Unknown

Primary reason for rehospitalization

- Anticoagulation adjustment
- Arterial Non-CNS Thrombo-embolism
- Cardiac Arrhythmia
- Cardiac Tamponade
- Catastrophe (i.e. weather)
- Device Malfunction
- Diagnostic Procedure
- Explant
- Fever without known cause
- Fluid Overload
- Gastroenteritis
- GI Disorder
- Hematological
- Hematoma
- Hemolysis
- Hepatic Dysfunction
- Hypertension
- Limb vascular complication
- Major Bleeding
- Major Infection
- Metabolic/Electrolyte Disturbance
- Myocardial Infarction
- Neurological Dysfunction
- Other, specify
- Pericardial Fluid Collection
- Planned medical management
- Planned Procedure
- Pneumonia
- Psychiatric Episode
- Pulmonary Embolism/Hemorrhage
- Pulmonary, Other
- Renal Dysfunction
- Respiratory Failure
- Right Heart Failure
- Social Issues / Disposition (Foster Care / Eviction)
- Syncope without known cause
- Transplant
- Trauma/Accident

- Unknown
 - Venous Thromboembolic Event
 - Wound Complication
 - Wound Dehiscence
-

Rehospitalization intervention

- None
- Transplantation
- Surgical Procedure
- Heart Cath
- Invasive Cardiac Procedures (Other than Heart Cath)
- Unknown
- Other

Type of surgical procedure

- Device related operation
- Other Cardiac Surgical Procedure
- Non Cardiac Surgical Procedure
- Other procedure
- Unknown

Type 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
- Other, specify
- Unknown

Type of procedure (non cardiac surgical procedure)

Other procedure

- Intubation and Vent support
- Dialysis
- Bronchoscopy
- Other, specify

Type of Invasive Cardiac Procedure (Other than Heart Cath)

Enter PA systolic pressure

 mmHg

- ST= Unknown
 Not Done

Enter PA diastolic pressure mmHg

ST= Unknown
 Not Done

Enter PCW pressure mmHg

ST= Unknown
 Not Done

Enter Cardiac output L/min

ST= Unknown
 Not Done

Clinical Observations

Systolic blood pressure mmHg

ST= Unknown
 Not done

Diastolic blood pressure mmHg

ST= Unknown
 Not done

Mean Arterial Blood Pressure (MAP) mmHg

ST= Unknown
 Not done

Did patient receive new IV or oral medications to treat hypertension?
 Yes
 No
 Unknown

Has the patient experienced a Neurological Event since time of implant?
 Yes
 No
 Unknown

If yes, please enter the Modified Rankin Scale.

Modified Rankin Scale

- 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

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[Pedimacs]

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Infection

Was there a major infection? Yes
 No
 Unknown

Date of onset
 ST= Unknown

Did this infection contribute to death? Yes
 No
 Unknown

Location of patient In hospital
 Out of hospital
 Unknown

Location of infection Pump / related - Drive Line
 Pump / related - Exit Cannula
 Pump / related - Pump Pocket
 Pump / related - Pump Interior
 Positive Blood cultures
 Line Sepsis
 Pulmonary
 Urinary Tract
 Mediastinum
 Peripheral Wound
 GI
 Unknown
 Other, specify

Type of infection Bacterial
 Fungal
 Viral
 Protozoan
 Unknown

Intervention Drug therapy only: Oral
 Drug therapy only: IV
 Surgical and drug therapy
 Surgical therapy only
 Unknown

Is this a Device Related Event? Yes
 No

Did the patient test 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:

If yes, did the patient have an associated bacterial lung infection?

- Yes
- No
- Unknown

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Bleeding (Transfusions for anemia and hemolysis are not considered bleeding events)

Was there a Major Bleeding Event?

Yes
 No
 Unknown

Date of bleeding episode onset

ST= Unknown

Location of patient

In hospital
 Out of hospital
 Unknown

Did the major bleeding episode result in one or more of the following

Episode resulted in Death
 Episode resulted in re-intervention
 Episode resulted in hospitalization
 Episode resulted in transfusion

Total units PRBC's (Enter total number of cc's received for this bleeding episode)

ST= Unknown

Date of first transfusion for this episode

ST= Unknown

Source/cause/location of bleeding

Mediastinal: chest wall
 Mediastinal: outflow-aorta anastomosis
 Mediastinal: outflow conduit
 Mediastinal: inflow conduit
 Mediastinal: aortic-venous cannulation site
 Mediastinal: coagulopathy with no surgical site
 Mediastinal: other surgical site
 Pump pocket
 Pleural space
 Intra-abdominal
 Retroperitoneal
 Pulmonary
 Device anastomosis
 Urinary tract
 GI: Upper gastrointestinal (esophagus, stomach, duodenum, small bowel)
 GI: Lower gastrointestinal (colon, rectum, and anus)
 GI: unknown, but guaiac positive stools
 Other, specify

Heparin levels

ST= Unknown
 Not Done

INR

ST= Unknown
 Not Done

Anticoagulant therapy at time of event

- Warfarin
- Heparin
- Lovenox
- Aspirin
- Dipyridamole
- Clopidogrel (plavix)
- Argatroban
- Bivalirudin
- Fondaparinux
- Dextran
- Ticlopidine
- Hirudin
- Lepirudin
- Ximelagatran
- None
- Other, specify

Is this a Device Related Event?

- Yes
- No

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Neuro

Was there a neurological dysfunction?

Yes
 No
 Unknown

Date of onset

ST= Unknown

Location of patient

- In hospital
 Out of hospital
 Unknown

Neurological dysfunction categories

- TIA
 CVA
 Seizure
 Encephalopathy
 Infarction Seen by Imaging, without Clinical Findings of TIA/Stroke
 Extra-axial Bleeding Seen by imaging study
 Confusion
 None

Type of CVA

- Ischemic / Embolism
 Hemorrhagic
 Other

Stroke severity

- Left sided weakness
 Right sided weakness
 Left sided paralysis
 Right sided paralysis
 Speech deficit
 Altered mental status
 Coma
 Other, specify

Is this a Device Related Event?

- Yes
 No

Seizure Type

- Generalized
 Focal

Encephalopathy type

- Metabolic
 Anoxic
 Traumatic
 Other

Did this Neurological Dysfunction Adverse Event contribute to the patient's death?

- Yes
- No
- Unknown

Location of CNS event

- Right hemisphere: frontal
- Right hemisphere: temporal
- Right hemisphere: occipital
- Right hemisphere: parietal
- Right hemisphere: unspecified
- Left hemisphere: frontal
- Left hemisphere: temporal
- Left hemisphere: occipital
- Left hemisphere: parietal
- Left hemisphere: unspecified
- Bilateral: frontal
- Bilateral: temporal
- Bilateral: occipital
- Bilateral: parietal
- Occipital
- Brain stem
- Cerebellar
- Thalamic
- Subdural
- Spinal cord
- Unknown
- Other, specify

Method of diagnosis of CNS event

- CT
- MRI
- Angiogram
- Clinical
- EEG
- Ultrasound
- Unknown
- Other, specify

Anticoagulant therapy at time of event

- Warfarin
- Heparin
- Lovenox
- Aspirin
- Dipyridamole
- Clopidogrel (plavix)
- Argatroban
- Bivalirudin
- Fondaparinux
- Dextran
- Ticlopidine
- Hirudin
- Lepirudin
- Ximelagatran
- None
- Other, specify

Hypertension

- Yes

- No
- Unknown

Modified Rankin Scale

- 0 - No symptoms at all
- 1 - No Significant disability
- 2 - Slight disability
- 3 - Moderate disability
- 4 - Moderately severe disability
- 5 - Severe disability
- 6 - Dead

- ST= Not Documented
 Not Done

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Device Malf/Failure and/or Pump Thrombus

Was there a device malfunction / failure and / or a pump thrombus?

- Yes
 No
 Unknown

Date of onset

Device Type

Location of patient

- In hospital
 Out of hospital
 Unknown

Description of Malfunction

Thrombus Event

Did the patient experience a thrombus event (suspected or confirmed)?

- Yes
 No
 Unknown

Was the suspected or confirmed thrombus associated with one or more of the following signs or symptoms?

- Hemolysis
 Heart Failure
 Abnormal Pump Parameters
 Stroke
 TIA
 Arterial Non-CNS Thromboembolism
 None
 Other, Specify

Did the patient have one or more of the following?

- Treatment with intravenous anticoagulation (e.g. heparin)
 Intravenous thrombolytic (e.g. TPA)
 Intravenous antiplatelet therapy (e.g. eptifibatide)
 Other, Specify

Was the thrombus event confirmed?

- Yes
 No
 Unknown

Please select method of confirmation:

- Imaging Study
 Visual Inspection
 Manufacturer's Report

- Was there a device Malfunction?**
- Yes
- No
- Unknown

Please select all of the components that apply

- Pump**
- Yes
- No

- Pump Component(s)**
- Pump Body (including bearings and rotor)
- Driveline
- Inflow Cannula
- Outflow Graft (including bend relief)

- Controller**
- Yes
- No

- Controller**
- Primary System Failure (running in backup mode)
- Complete System Failure (primary and backup failure)
- Power Cable (attached to controller)
- Power Connectors (attached to controller)
- Other, Specify

- Peripherals**
- Yes
- No

- Peripheral Component(s)**
- External Battery
- Cell Battery (in controller)
- Power Module
- Patient Cable
- System Monitor / Display
- Battery Charger
- Battery Clip

- Pump (RVAD)**
- Yes
- No

- Pump Component(s) (RVAD)**
- Pump Body (including bearings and rotor)
- Driveline
- Inflow Cannula
- Outflow Graft (including bend relief)

- Controller (RVAD)**
- Yes
- No

- Controller Component(s) (RVAD)**
- Primary System Failure (running in backup mode)
- Complete System Failure (primary and backup failure)
- Power Cable (attached to controller)
- Power Connectors (attached to controller)
- Other, Specify

- Peripherals (RVAD)**
- Yes
- No

- Peripheral Component(s) (RVAD)**
- External Battery
- Cell Battery (in controller)
- Power Module

- Patient Cable
- System Monitor / Display
- Battery Charger
- Battery Clip

Outcomes of Device Adverse Event

Patient Outcome

- Death
 - Serious Injury
 - Urgent Transplantation
 - Explant Without Replacement
 - Exchange
 - Breach of Integrity of Drive Line that Required Repair
 - Other Surgical Procedure
 - None of the Above
-

Causative or contributing factors to the Device Malfunction

- Patient Accident
- Patient Non-Compliance
- Sub Therapeutic Anticoagulation
- Prothrombotic States
- End of Component Expected Life
- Technical and/or Procedural Issues (e.g. cannula or graft malposition or kinking)
- No Cause Identified

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Additional Adverse Events

Were there any additional adverse events? Yes No

Cardiac Arrhythmia Yes No Unknown

Event Date

ST= Unknown

Type of cardiac arrhythmia Sustained ventricular arrhythmia requiring defibrillation or cardioversion Sustained supraventricular arrhythmia requiring drug treatment or cardioversion Unknown

Pericardial Effusion Yes No Unknown

Event Date

ST= Unknown

Signs of tamponade Yes No Unknown

Method of drainage OP Cath Unknown

Hepatic Dysfunction Yes No Unknown

Total bilirubin measurement mg/dL

ST= Unknown

Not Done

SGOT / AST measurement u/L

ST= Unknown

Not Done

SGPT / ALT measurement u/L

ST= Unknown

Not Done

Event Date

ST= Unknown

Myocardial Infarction Yes
 No
 Unknown

Event Date

ST= Unknown

Psychiatric Episode Yes
 No
 Unknown

Event Date

ST= Unknown

Renal Dysfunction Yes
 No
 Unknown

Event Date

ST= Unknown

Dialysis duration days

ST= Unknown

- Not Done
- Ongoing

Peak creatinine measurement mg/dL

ST= Unknown

- Not Done
-

Respiratory Failure Yes
 No
 Unknown

Event Date

ST= Unknown

- Ongoing

Intubation duration days

ST= Unknown

- Ongoing

Was a tracheotomy performed? Yes

- No
- Unknown

Arterial Non-CNS Thromboembolism

- Yes
- No
- Unknown

Date

ST= Unknown

Location

- Pulmonary
- Renal
- Hepatic
- Splenic
- Limb
- Other
- Unknown

Confirmation source

- Standard clinical and laboratory testing
- Operative findings
- Autopsy finding
- Other
- Unknown

Anticoagulant therapy at time of event

- Warfarin
- Heparin
- Lovenox
- Aspirin
- Dipyridamole
- Clopidogrel (plavix)
- Argatroban
- Bivalirudin
- Fondaparinux
- Dextran
- Ticlopidine
- Hirudin
- Lepirudin
- Ximelagatran
- None
- Other, specify

Venous Thromboembolism Event

- Deep Vein thrombosis
- Pulmonary Embolus
- Other, specify
- Unknown
- None

Enter deep vein thrombosis date

ST= Unknown

Enter pulmonary embolus date

ST= Unknown

Enter other date

ST= Unknown

Anticoagulant therapy at time of event

- Warfarin
- Heparin
- Lovenox
- Aspirin
- Dipyridamole
- Clopidogrel (plavix)
- Argatroban
- Bivalirudin
- Fondaparinux
- Dextran
- Ticlopidine
- Hirudin
- Lepirudin
- Ximelagatran
- None
- Other, specify

Wound Dehiscence

- Yes
- No
- Unknown

Date

ST= Unknown

Enter location:

- Sternum
- Driveline Sites
- Site of thoracotomy
- Other, specify

Other Events

- Yes
- No
- Unknown

Description

Event Date

ST= Unknown

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Explant

Was Device Explanted for any reason (includes exchanges or "turned off")?

Yes
 No

Explant date

ST= Unknown

Device explanted

LVAD
 RVAD
 BIVAD
 TAH

Patient's Home Street Address

ST= Unknown

Patient's Home City

ST= Unknown

Patient's Home State/Territory/Province

- Alabama
- Alaska
- American Samoa
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware
- District of Columbia
- Federated States of Micronesia
- Florida
- Georgia
- Guam
- Hawaii
- Idaho
- Illinois
- Indiana
- Iowa
- Kansas
- Kentucky
- Louisiana
- Maine
- Marshall Islands
- Maryland
- Massachusetts
- Michigan
- Minnesota

- Mississippi
- Missouri
- Montana
- Nebraska
- Nevada
- New Hampshire
- New Jersey
- New Mexico
- New York
- North Carolina
- North Dakota
- Northern Mariana Islands
- Ohio
- Oklahoma
- Oregon
- Palau
- Pennsylvania
- Puerto Rico
- Rhode Island
- South Carolina
- South Dakota
- Tennessee
- Texas
- Utah
- Vermont
- Virgin Islands
- Virginia
- Washington
- West Virginia
- Wisconsin
- Wyoming
- Alberta
- Ontario
- Nova Scotia
- British Columbia
- Manitoba
- Quebec
- New Brunswick
- Prince Edward Island
- Saskatchewan
- Newfoundland and Labrador
- Unknown

Patient's Home Zip Code

ST= Unknown

If death or transplant occurred post cessation of MCSD support please complete the 1 year post cessation form.

Explant reason

- Explant - Death
- Explant - Transplanted
- Explant - Exchange

- Explant - No new device
- Turned off (decommissioned)

Explant reasons (check all that apply)

- Device Malfunction: Elective (Please fill out Device Malfunction/Thrombus form)
- Device Malfunction: Emergent (Please fill out Device Malfunction/Thrombus form)
- Device Thrombosis: Elective (Please fill out Device Malfunction/Thrombus form)
- Device Thrombosis: Emergent (Please fill out Device Malfunction/Thrombus form)
- Infection: Elective (Please fill out Infection form)
- Infection: Emergent (Please fill out Infection form)
- Other

Exchanged Device FDA IDE Trial

- Yes
- No
- Unknown

Name of FDA IDE Trial

Explant reasons (check all that apply)

- Recovery
- Withdrawal of Support
- Device Malfunction: Elective (Please fill out Device Malfunction/Thrombus form)
- Device Malfunction: Emergent (Please fill out Device Malfunction/Thrombus form)
- Device Thrombosis: Elective (Please fill out Device Malfunction/Thrombus form)
- Device Thrombosis: Emergent (Please fill out Device Malfunction/Thrombus form)
- Infection: Elective (Please fill out Infection form)
- Infection: Emergent (Please fill out Infection form)
- Other

Reasons (check all that apply)

- Recovery
- Withdrawal of Support
- Device Malfunction: Elective (Please fill out Device Malfunction/Thrombus form)
- Device Malfunction: Emergent (Please fill out Device Malfunction/Thrombus form)
- Device Thrombosis: Elective (Please fill out Device Malfunction/Thrombus form)
- Device Thrombosis: Emergent (Please fill out Device Malfunction/Thrombus form)
- Infection: Elective (Please fill out Infection form)
- Infection: Emergent (Please fill out Infection form)
- Other

Evidence of Pump Thrombosis?

- Yes
- No
- Unknown

Evidence of Pump Thrombosis?

- Yes
- No
- Unknown

Transplant date

ST= Unknown

Waitlist ID

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Death

Did the patient die? Yes
 No

Death date
ST= Unknown

Patient's Home Street Address
ST= Unknown

Patient's Home City
ST= Unknown

Patient's Home State/Territory/Province

- Alabama
- Alaska
- American Samoa
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware
- District of Columbia
- Federated States of Micronesia
- Florida
- Georgia
- Guam
- Hawaii
- Idaho
- Illinois
- Indiana
- Iowa
- Kansas
- Kentucky
- Louisiana
- Maine
- Marshall Islands
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Mississippi
- Missouri
- Montana
- Nebraska
- Nevada
- New Hampshire

- New Jersey
- New Mexico
- New York
- North Carolina
- North Dakota
- Northern Mariana Islands
- Ohio
- Oklahoma
- Oregon
- Palau
- Pennsylvania
- Puerto Rico
- Rhode Island
- South Carolina
- South Dakota
- Tennessee
- Texas
- Utah
- Vermont
- Virgin Islands
- Virginia
- Washington
- West Virginia
- Wisconsin
- Wyoming
- Alberta
- Ontario
- Nova Scotia
- British Columbia
- Manitoba
- Quebec
- New Brunswick
- Prince Edward Island
- Saskatchewan
- Newfoundland and Labrador
- Unknown

Patient's Home Zip Code

ST= Unknown

Was device functioning normally?

- Yes
- No
- Unknown

Associated Operation

- Yes
- No
- Unknown

Post mortem device explant?

- Yes
- No
- Unknown

Did the device go to the manufacturer?

- Yes
- No
- Unknown

Location of death

- In hospital
- Long term care facility
- Home/Residence
- Out of hospital, Other
- Unknown

Did COVID-19 contribute to death?

- Yes
- No
- Unknown

Primary cause of death

- Respiratory: Venous Thromboembolism Event
- Respiratory: Respiratory Failure
- Respiratory: COVID-19
- Respiratory: Pulmonary: Other, specify
- Circulatory: Arterial Non-CNS Thromboembolism
- 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

- CNS
- GI
- Lymph
- ENT
- Pulmonary
- Renal
- Breast
- Reproductive
- Skin
- Other
- Unknown

Specify support withdrawn

Specify

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Extracorporeal / Paracorporeal Pump Change

Was there an extracorporeal pump/component exchange? Yes No

Pump/Component Exchange Date:

ST= Unknown

Device Type: LVAD RVAD BIVAD

Component Exchanged: Pump Inflow Cannula Parts (not requiring OR visit) Outflow Cannula Parts (not requiring OR visit) Driving Tube Connector Other, specify

RVAD Component Exchanged: Pump Inflow Cannula Parts (not requiring OR visit) Outflow Cannula Parts (not requiring OR visit) Driving Tube Connector Other, specify

Reason for Exchange Thrombus NOT associated with hemolysis Change in hemodynamics Clinical status Device parameters (please enter Device Malfunction Form) Upsizing device because of patient growth status Other, specify