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

ehospitalization	
Was there an occurrence of rehospitalization?	Yes No
ls this rehospitalization at your hospital?	<ul><li>Yes</li><li>No</li></ul>
Date of admission	ST=   Unknown
Discharge Date	ST= Ounknown
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 Fluid Collection Pericardial Fluid Collection Planned medical management Planned Procedure Pneumonia Psychiatric Episode Pulmonary, Other Renal Dysfunction
	<ul> <li>Respiratory Failure</li> <li>Right Heart Failure</li> <li>Syncope without known cause</li> <li>Transplant</li> </ul>

	<ul> <li>Trauma/Accident</li> <li>Venous Thromboembolic Event</li> <li>Wound Complication</li> <li>Wound Dehiscence</li> <li>Unknown</li> <li>Other, specify</li> </ul>
Rehospitalization intervention	<ul> <li>Surgical Procedure</li> <li>Heart Cath</li> <li>Invasive Cardiac Procedures (Other than Heart Cath)</li> <li>Transplantation</li> <li>None</li> <li>Unknown</li> <li>Other</li> </ul>
Type of surgical procedure	<ul> <li>Device related operation</li> <li>Other Cardiac Surgical Procedure</li> <li>Non Cardiac Surgical Procedure</li> <li>Other procedure</li> <li>Unknown</li> </ul>
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 - Other Tricuspid Valve Surgery - Repair - Other Tricuspid Valve Surgery - Replacement - Biological Tricuspid Valve Surgery - Replacement - Biological Tricuspid Valve Surgery - Replacement - Mechanical Pulmonary Valve Surgery - Replacement - Mechanical Pulmonary Valve Surgery - Replacement - Biological Pulmonary Valve Surgery - Replacement - Mechanical Unknown Other, specify
Type of procedure (non cardiac surgical procedure)	
Other procedure	<ul><li>Intubation and Vent support</li><li>Dialysis</li><li>Bronchoscopy</li><li>Other, specify</li></ul>
pe of Invasive Cardiac Procedure	

Adverse Event - Rehospitalization

Adverse Event - Rehospitalization version date: 10/20/2016 **Enter PA systolic pressure** mmHg ST= OUnknown **Enter PA diastolic pressure** mmHg ST= OUnknown Not Done **Enter PCW pressure** mmHg ST= OUnknown Not Done **Enter Cardiac output** L/min ST= OUnknown Not Done **Clinical Observations** Systolic blood pressure mmHg ST= OUnknown Not done Diastolic blood pressure mmHg ST= OUnknown Not done **Doppler Opening Pressure** ST= O Unknown Not done Not applicable Has the patient experienced a Yes Neurological Event since time of No implant? Unknown If yes, you may enter either the Modified Rankin Scale and/or the NIH Stroke 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= ONot Documented

Not Done

Adverse Event - Rehospitalization

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= Not Documented
Not Done

Infection	
Was there a major infection?	Yes No Unknown
Date of onset	ST= O Unknown
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	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	<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?	Yes No Unknown

Adverse Event - Infection		version date: 10/20/2016
Is this a Device Related Event?	○ Yes ○ No	

Bleeding (Transfusions for anemia and hemolysis	s are not considered bleeding events)
Was there a Major Bleeding Event?	Yes No Unknown
Date of bleeding episode onset	ST= • Unknown
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= O 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 Mediastinal: Unspecified Pleural space Intra-abdominal Retroperitoneal Pulmonary Device anastamosis Urinary tract GI: Upper gastrointestinal (esophagus, stomach, duodenum, small bowel) GI: Lower gastrointestinal (colon, rectum, and anus) GI: unknown, but guaiac positive stools ENT/Dental Other, specify
INR	ST- A Hakroup
	ST=  Unknown Not Done

Adverse Event - Bleeding version date: 10/20/2016 Anticoagulant therapy at time of Warfarin event Heparin Lovenox Aspirin Dipyridamole ☐ Clopidogrel (plavix) Argatroban Bivalirudin ■ Fondaparinux Dextran Ticlopidine Hirudin Lepirudin Ximelagatran None Other, specify Is this a Device Related Event? Yes O No

Neuro	
Was there a neurological dysfunction?	Yes No Unknown
Date of onset	ST= O Unknown
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 weakness</li> <li>Left 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?	Yes No
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	Right hemisphere: frontal Right hemisphere: temporal

Adverse Event - Neurological Dysfunction	version date: 10/20/2016
	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 Unknown Other, specify
Method of diagnosis of CNS event	CT MRI Angiogram Clinical 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
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  Modified Rankin Scale	Rankin Scale and/or the NIH Stroke 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.

Adverse Event - Neurological Dysfunction	version date: 10/20/2016
	<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= ONot Documented
	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 ONot Done

Device Malf/Failure and/or P	ump Thrombus
Was there a device malfunction / failure and / or a pump thrombus?	Yes No Unknown
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	
Thrombus 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?	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?	<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?	Yes No Unknown
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?	○ Yes
	<ul><li>No</li><li>Unknown</li></ul>
Please select all of the component	ts that apply
Pump	○ Yes ○ No
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)	External Battery Cell Battery (in controller) Power Module Patient Cable System Monitor / Display Battery Charger Battery Clip
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)	○ Yes ○ No
Peripheral Component(s) (RVAD)	External Battery Cell Battery (in controller) Power Module

Adverse Event - Device Malf/Failure and/or Pump Thrombus		version date: 10/20/2016
	<ul><li>Patient Cable</li><li>System Monitor / Display</li><li>Battery Charger</li><li>Battery Clip</li></ul>	
Outcomes of Device Adverse Event		
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 R</li> <li>Other Surgical Procedure</li> <li>None of the Above</li> </ul>	Repair
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. cannul kinking) No Cause Identified	a or graft malposition or

Were there any additional adverse	Yes	
events?	No	
Cardiac Arrhythmia	○ Yes	
	O No	
	Unknown	
Event Date		
	ST= O Unknown	
Type of cardiac arrhythmia	<ul> <li>Sustained ventricular a</li> </ul>	urrhythmia requiring defibrillation or cardioversion
		cular arrhythmia requiring drug treatment or
	cardioversion	
	Unknown	
Pericardial Effusion	○ Yes	
. oou. u.u	O No	
	Unknown	
Event Date		
	ST= O Unknown	
0		
Signs of tamponade	<ul><li>Yes</li><li>No</li></ul>	
	Unknown	
Mother defenders		
Method of drainage	<ul><li>Surgical intervention</li><li>Cath</li></ul>	
	Unknown	
Hepatic Dysfunction	○ Yes	
,,,,,	O No	
	Unknown	
Total bilirubin measurement		mg/dL
	ST= O Unknown	
	O Not Done	
SGOT // AST measurement		u/L
	ST= O Unknown	
	<ul><li>Not Done</li></ul>	
SGPT // ALT measurement		u/L
	ST= O Unknown	
	O Not Done	
Event Date		

Myocardial Infarction	Yes No Unknown	
Event Date	ST= O Unknown	
Psychiatric Episode	Yes No Unknown	
Event Date	ST= O Unknown	
Renal Dysfunction	Yes No Unknown	
Event Date	ST= O Unknown	
Dialysis duration		days
	ST=  Unknown Not Done Ongoing	
Peak creatinine measurement	ST=  Unknown Not Done	mg/dL
Respiratory Failure	Yes No Unknown	
Event Date	ST= Ounknown Ongoing	
Intubation duration	ST=  Unknown Ongoing	days
Was a trachoetomy performed?	Yes No Unknown	
Arterial Non-CNS Thromboembolism	Yes No Unknown	

Date	
	ST= O Unknown
Location	<ul> <li>Pulmonary</li> <li>Renal</li> <li>Hepatic</li> <li>Splenic</li> <li>Limb</li> <li>Other</li> <li>Unknown</li> </ul>
Confirmation source	<ul> <li>Standard clinical and laboratory testing</li> <li>Operative findings</li> <li>Autopsy finding</li> <li>Other</li> <li>Unknown</li> </ul>
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 Embolis Other, specify Unknown None
Enter deep vein thrombosis date	ST= O Unknown
Enter pulmonary embolus date	ST= O Unknown
Enter other date	ST= O Unknown

Adverse Event - Additional Adverse Events

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= O Unknown
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= • Unknown

ant	
Was Device Explanted for any	Yes
reason	No
(includes exchanges or "turned off")?	
Explant date	
	ST= O Unknown
Device explanted	○ LVAD
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
αρριγ)	Malfunction/Thrombus form)  Device Malfunction: Emergent (Please fill out Device
	Malfunction/Thrombus form)
	Device Thrombosis: Elective (Please fill out Device
	Malfunction/Thrombus form)
	<ul> <li>Device Thrombosis: Emergent (Please fill out Device Malfunction/Thrombus form)</li> </ul>
	☐ Infection: Elective (Please fill out Infection form)
	Infection: Emergent (Please fill out Infection form)
	Other
Exchanged Device FDA IDE Trial	Yes
•	No No
	Unknown
Name of FDA IDE Trial	
Explant reasons (check all that apply)	<ul><li>Recovery</li><li>Withdrawal of Support</li></ul>
арріу)	Device Malfunction: Elective (Please fill out Device
	Malfunction/Thrombus form)
	Device Malfunction: Emergent (Please fill out Device
	Malfunction/Thrombus form)
	<ul> <li>Device Thrombosis: Elective (Please fill out Device Malfunction/Thrombus form)</li> </ul>
	Device Thrombosis: Emergent (Please fill out Device
	Malfunction/Thrombus form)
	Infection: Elective (Please fill out Infection form)
	<ul><li>Infection: Emergent (Please fill out Infection form)</li><li>Other</li></ul>

Adverse Event - Explant version date: 10/20/2016

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?	<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= O Unknown
Waitlist ID	

eath	
Did the patient die?	<ul><li>Yes</li><li>No</li></ul>
Death date	ST= O Unknown
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>

Adverse Event - Death version date: 10/20/2016

Primary cause of death	Respiratory: Venous Thromboembolism Event
•	Respiratory: Respiratory Failure
	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
	<ul> <li>Circulatory: End Stage Cardiomyopathy</li> </ul>
	<ul><li>Circulatory: End Stage Ischemic Cardiomyopathy</li></ul>
	<ul><li>Circulatory: Pericardial Fluid Collection (effusion)</li></ul>
	<ul><li>Digestive (Intestinal or GI/GU): Hepatic Dysfunction</li></ul>
	<ul><li>Digestive (Intestinal or GI/GU): Renal Dysfunction</li></ul>
	<ul><li>Digestive (Intestinal or GI/GU): GI Disorder</li></ul>
	<ul><li>Digestive (Intestinal or GI/GU): Fluid/Electrolyte Disorder</li></ul>
	<ul><li>Digestive (Intestinal or GI/GU): Pancreatitis</li></ul>
	<ul><li>Nervous System: Neurological Dysfunction</li></ul>
	Psychiatric Episode/Suicide
	Major Infection
	Device Malfunction
	<ul><li>Multiple System Organ Failure (MSOF)</li></ul>
	<ul> <li>Withdrawal of Support, specify</li> </ul>
	Cancer
	Wound Dehiscence
	Trauma/accident, specify
	© Endocrine
	Hematological
	Other, specify
Select type of cancer	○ CNS
	○ GI
	© Lymph
	© ENT
	O Pulmonary
	© Renal
	© Breast
	Reproductive
	○ Skin
	Other
	Unknown
Specify support withdrawn	

Adverse Event - Death			version date: 10/20/2016
	Specify		