

CTSN/CCTR**LVAD THERAPY: EXPLORING THE EFFECT OF INTRAMYOCARDIAL INJECTION OF
MESENCHYMAL PRECURSOR CELLS ON MYOCARDIAL FUNCTION****CASE REPORT FORMS**

Demographics	LVAD01
Laboratory Assessment	LVAD03
Medical History	LVAD05
Medications	LVAD06
Pre-Implant Echo & Collection	LVAD09
Hemodynamics – Baseline	LVAD13
Treatment Assignment	LVAD17a
Hospitalizations	LVAD19
Echocardiography & Collection	LVAD22
Wean Assessment	LVAD23
Six Minute Walk	LVAD24
Adverse Events Form	LVAD26
Study Completion/Early Termination	LVAD28
Mortality Form	LVAD29
Adverse Events Adjudication	LVAD33

Date of Birth:	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> d d m m m y y y y
Sex (check one):	<input type="checkbox"/> Male <input type="checkbox"/> Female
Racial Category (check one):	<input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Asian <input type="checkbox"/> Black or African American <input type="checkbox"/> Native Hawaiian or Other Pacific Islander <input type="checkbox"/> White
Specify indication for LVAD therapy (check only one): <input type="checkbox"/> Bridge to Transplantation (BTT) <input type="checkbox"/> Destination Therapy (DT)	

Patient ID: - - -

Blood Chemistry

Parameter	Laboratory Result	Unit of Measure
Date Assessed	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <small>d d m m m y y y y</small>	
Creatinine	<input type="text"/> <input type="text"/> . <input type="text"/>	mg/dl

Patient ID: - - -

Date Medical History Obtained: / /
d d m m m y y y y

Cardiovascular History	
Primary Etiology of Heart Failure (Check only one option): <input type="checkbox"/> Ischemic <input type="checkbox"/> Non-ischemic	
Cardiovascular Procedure History	
Permanent Pacemaker	<input type="checkbox"/> No <input type="checkbox"/> Yes If yes, specify type of pacemaker: <input type="checkbox"/> Univentricular pacemaker <input type="checkbox"/> Biventricular pacemaker
Current Medical Condition	
Current NYHA Classification:	
<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class IIIa <input type="checkbox"/> Class IIIb <input type="checkbox"/> Class IV	
Is the patient on an IABP?	<input type="checkbox"/> No <input type="checkbox"/> Yes

Patient ID: - - -

Date of Medication: / /
d d m m m y y y y

Cardiovascular Therapy	
Beta Blocker	<input type="checkbox"/> No <input type="checkbox"/> Yes
Diuretic	<input type="checkbox"/> No <input type="checkbox"/> Yes
If yes, specify Number of Diuretics:	<input type="checkbox"/> One <input type="checkbox"/> More than one
Aldosterone Receptor Antagonist (i.e. Spironalactone)	<input type="checkbox"/> No <input type="checkbox"/> Yes
Angiotensin Converting Enzyme Inhibitor (ACEi)	<input type="checkbox"/> No <input type="checkbox"/> Yes
Angiotensin II Antagonist (ARB)	<input type="checkbox"/> No <input type="checkbox"/> Yes
Inotropic or Vasoactive Therapy	<input type="checkbox"/> No <input type="checkbox"/> Yes
If yes, type of inotropic or vasoactive therapy (check all that apply):	
<input type="checkbox"/> Dobutamine (Dobutrex) Specify: <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	
<input type="checkbox"/> Milrinone (Primacor) Specify: <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	
<input type="checkbox"/> Nesiritide (Natrecor) Specify: <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	
<input type="checkbox"/> Dopamine Specify: <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	
<input type="checkbox"/> Noradrenaline (Levophed) Specify: <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	
<input type="checkbox"/> Isoprenaline (Isuprel) Specify: <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	
<input type="checkbox"/> Vasopressin (Pitressin) Specify: <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	
<input type="checkbox"/> Other _____ Specify: <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	

Patient ID: --

Echo Collection: Pre-Implantation

Test Date: //
d d m m m y y y y

Left ventricular end-diastolic diameter: . cm
Left ventricular end-systolic diameter: . cm
LVEF from Simpson's rule: % Unable to assess

Patient ID: - - -

Complete within 7 days prior to randomization or in the OR immediately prior to LVAD implantation.

Date of Hemodynamics measured: / /
d d m m m y y y y

Timepoint hemodynamics assessed: Baseline
 Operating Room

Pam mmHg

PCWP mmHg

Cardiac Output . L/min

Cardiac Index . L/min/m²

PVR (will be calculated during analysis)

Patient ID: ---

Treatment Assignment must be administered within 24 hours following Randomization.

Treatment Assignment:

Cryopreservation Medium

MPC Dose 25M

Patient ID: ---

Date of Hospital Admission: / /
d d m m m y y y y

Date of Hospital Discharge: / /
d d m m m y y y y

Reason for admission:

- Index hospitalization
- Rehospitalization (specify diagnosis):

Primary Reason for Hospital Admission:

- Cardiovascular
 - Type of cardiovascular admission:
 - LVAD related
 - Non LVAD related
 - Heart Transplantation
- Non Cardiovascular

Disposition at hospital discharge:

Patient discharged to:

- Home
- Skilled Nursing Care Facility
- Inpatient Rehabilitation Facility
- Hospice
- Death (Complete Mortality form and all other applicable End of Study forms)
- Other (specify): _____

Patient ID: ---

Echo Collection

IMMEDIATELY FOLLOWING THE 6 MINUTE WALK	
Test Date:	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <small>d d m m m y y y y</small>
Left ventricular end-diastolic diameter:	<input type="text"/> . <input type="text"/> cm
Left ventricular end-systolic diameter:	<input type="text"/> . <input type="text"/> cm
LVEF from Simpson's rule:	<input type="text"/> <input type="text"/> <input type="text"/> %

Patient ID: - - -

Test Date: / /
d d m m m y y y y

Was wean attempted?
 No. If no, specify _____
 Yes

Time Point Minutes	Is patient weaned from LVAD?	Enter any Signs / Symptoms (check all that apply)
<input type="checkbox"/> 0 Minute	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Light Headedness <input type="checkbox"/> Dyspnea <input type="checkbox"/> Fatigue <input type="checkbox"/> Chest Pain <input type="checkbox"/> Pulmonary Edema <input type="checkbox"/> Other (specify): _____
<input type="checkbox"/> 1 Minute	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Light Headedness <input type="checkbox"/> Dyspnea <input type="checkbox"/> Fatigue <input type="checkbox"/> Chest Pain <input type="checkbox"/> Pulmonary Edema <input type="checkbox"/> Other (specify): _____
<input type="checkbox"/> 5 Minutes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Light Headedness <input type="checkbox"/> Dyspnea <input type="checkbox"/> Fatigue <input type="checkbox"/> Chest Pain <input type="checkbox"/> Pulmonary Edema <input type="checkbox"/> Other (specify): _____
<input type="checkbox"/> 10 Minutes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Light Headedness <input type="checkbox"/> Dyspnea <input type="checkbox"/> Fatigue <input type="checkbox"/> Chest Pain <input type="checkbox"/> Pulmonary Edema <input type="checkbox"/> Other (specify): _____
<input type="checkbox"/> 15 Minutes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Light Headedness <input type="checkbox"/> Dyspnea <input type="checkbox"/> Fatigue <input type="checkbox"/> Chest Pain <input type="checkbox"/> Pulmonary Edema <input type="checkbox"/> Other (specify): _____
<input type="checkbox"/> 20 Minutes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Light Headedness <input type="checkbox"/> Dyspnea <input type="checkbox"/> Fatigue <input type="checkbox"/> Chest Pain <input type="checkbox"/> Pulmonary Edema <input type="checkbox"/> Other (specify): _____
<input type="checkbox"/> 25 Minutes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Light Headedness <input type="checkbox"/> Dyspnea <input type="checkbox"/> Fatigue <input type="checkbox"/> Chest Pain <input type="checkbox"/> Pulmonary Edema <input type="checkbox"/> Other (specify): _____
<input type="checkbox"/> 30 Minutes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Light Headedness <input type="checkbox"/> Dyspnea <input type="checkbox"/> Fatigue <input type="checkbox"/> Chest Pain <input type="checkbox"/> Pulmonary Edema <input type="checkbox"/> Other (specify): _____
<input type="checkbox"/> 35 Minutes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Light Headedness <input type="checkbox"/> Dyspnea <input type="checkbox"/> Fatigue <input type="checkbox"/> Chest Pain <input type="checkbox"/> Pulmonary Edema <input type="checkbox"/> Other (specify): _____

<input type="checkbox"/> 40 Minutes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Dyspnea <input type="checkbox"/> Chest Pain <input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Light Headedness <input type="checkbox"/> Fatigue <input type="checkbox"/> Pulmonary Edema
<input type="checkbox"/> 45 Minutes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Dyspnea <input type="checkbox"/> Chest Pain <input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Light Headedness <input type="checkbox"/> Fatigue <input type="checkbox"/> Pulmonary Edema
<input type="checkbox"/> 50 Minutes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Dyspnea <input type="checkbox"/> Chest Pain <input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Light Headedness <input type="checkbox"/> Fatigue <input type="checkbox"/> Pulmonary Edema
<input type="checkbox"/> 55 Minutes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Dyspnea <input type="checkbox"/> Chest Pain <input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Light Headedness <input type="checkbox"/> Fatigue <input type="checkbox"/> Pulmonary Edema
<input type="checkbox"/> 60 Minutes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Dyspnea <input type="checkbox"/> Chest Pain <input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Light Headedness <input type="checkbox"/> Fatigue <input type="checkbox"/> Pulmonary Edema
Duration of wean: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Minutes			

Patient ID: ---

<p>Did patient complete 6 Minute Walk?</p> <p><input type="checkbox"/> Yes</p> <p> If yes, enter distance walked: <input type="text"/><input type="text"/><input type="text"/><input type="text"/> feet</p> <p><input type="checkbox"/> No</p> <p> If no, specify reason</p> <p> <input type="checkbox"/> Patient refused</p> <p> <input type="checkbox"/> Failed LVAD wean</p> <p> <input type="checkbox"/> Other (specify): _____</p>
<p>Test Date: <input type="text"/><input type="text"/>/<input type="text"/><input type="text"/><input type="text"/>/<input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <p style="text-align: center;"><small>d d m m m y y y y</small></p>

Patient ID: - - -

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Date of onset:

/ /

d d m m m y y y y

Type of Adverse Event Type you are reporting (check one event per form submission):

Expected Adverse Events Related To Intervention

- Reaction to Fetal Calf Serum or Murine Mouse Antibody
- Reaction to Dimethyl Sulfoxide
- Potential Study Product Contamination
- Potential Inflammatory Responses
- Possible Effects of Cells on Fetus

Protocol Defined Adverse Events

- Neoplasm

Specify Type: _____

- Major Bleeding (not Intra-operative)**
 Bleeding resulted in (check all that apply)
 - Blood transfusion greater than or equal to 4 units PRBC within any 24 hour period during the first 7 days post-implant
 If yes, number of units of PRBC
 - Any transfusion of packed red blood cells (PRBC) within any 24 hour period after 7 days following implant
 If yes, number of units of PRBC
 - Death
 - Re-operation
 - Re-hospitalization
- Intra-operative Bleeding**
 Bleeding resulted in (check all that apply):
 - Blood transfusion >4 units PRBC during an operative event. Specify number of units of PRBC
 - Re-operation
 - Death

- Cardiac Arrhythmias (specify):**
 - Cardiac arrest
 - Sustained ventricular arrhythmia requiring defibrillation or cardioversion
 - Sustained supraventricular arrhythmia requiring drug treatment or cardioversion
 - Cardiac conduction abnormalities or sustained bradycardia requiring permanent pacemaker placement

- Pericardial Fluid Collection**
 Specify clinical intervention
 - Surgical procedure
 - Percutaneous drainage
 Were there clinical signs of tamponade? No Yes

- Inflammatory Reaction**
 Specify reaction
 - Hypersensitivity Reaction
 - Immune Sensitization

- Device Malfunction**
 Check type of Device Malfunction / Failure
 - Pump Failure
 - Non-Pump Failure
 - Pump Thrombus, if yes specify suspected confirmed
 Check all that apply:

Directly caused a state of inadequate circulatory support
 Caused death
 Iatrogenic or recipient-induced
 Manufacturer confirmed device failure

Hemolysis
 Check clinical signs associated with hemolysis
 Anemia
 Hyperbilirubinemia (Total Bilirubin > 2mg/dl)
 Other (specify): _____

Indicate Plasma Free Hemoglobin (PFH) laboratory values closest to onset of adverse event:

Date of Lab Results
/
 /

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Plasma Free Hemoglobin (PFH)

 mg/dl

Hepatic Dysfunction
 Were at least two hepatic laboratory values greater than three times the upper limit of normal for the hospital for 14 consecutive days post-implant? No Yes
 Was hepatic dysfunction the primary cause of death? No Yes N/A

Hypertension
 Was patient started on anti-hypertensive medication? No Yes

Major Infection (specify):
 Localized Non-Device Infection
 Percutaneous Site
 Internal Pump Component, Inflow or Outflow Tract Infection
 Sepsis
 Infectious Myocarditis
 Infectious Pericarditis
 Cultures obtained? No Yes
 If yes, specify Organisms and Sites of Infection:

<i>Organism 1:</i> _____	<i>Site 1:</i> _____
<i>Organism 2:</i> _____	<i>Site 2:</i> _____
<i>Organism 3:</i> _____	<i>Site 3:</i> _____

Organism: (Select up to 3 Organisms)

<input type="checkbox"/> Acinetobacter <input type="checkbox"/> Acinobacter baumannii <input type="checkbox"/> Aspergillus flavus <input type="checkbox"/> Aspergillus versicolor <input type="checkbox"/> Asperigillus fumigatus <input type="checkbox"/> Bacteroides fragilis <input type="checkbox"/> Candida albicans <input type="checkbox"/> Candida glabrata <input type="checkbox"/> Candida krusei <input type="checkbox"/> Citrobacter freundii <input type="checkbox"/> Clostridium difficile <input type="checkbox"/> Coagulase negative staphylococcus (MRSE) <input type="checkbox"/> Corynebacterium striatum <input type="checkbox"/> Enterobacter gergoviae <input type="checkbox"/> Enterobacter aerogenes <input type="checkbox"/> Enterobacter cloacae <input type="checkbox"/> Enterococcus faecalis (Vancomycin resistant)	<input type="checkbox"/> Enterococcus faecalis (Vancomycin sensitive) <input type="checkbox"/> Escherichia coli <input type="checkbox"/> Klebsiella pneumoniae <input type="checkbox"/> Klebsiella oxytoca <input type="checkbox"/> Proteus mirabilis <input type="checkbox"/> Pseudomonas aeruginosa <input type="checkbox"/> Serratia marcescens <input type="checkbox"/> Staphylococcus aureus (Methicillin resistant) <input type="checkbox"/> Staphylococcus aureus (Methicillin sensitive) <input type="checkbox"/> Staphylococcus epidermididis (Methicillin resistant) <input type="checkbox"/> Staphylococcus epidermididis (Methicillin sensitive) <input type="checkbox"/> Stenotrophomas <input type="checkbox"/> Streptococcus <input type="checkbox"/> Torulopsis glabrata <input type="checkbox"/> Viridans strep <input type="checkbox"/> Other organism Specify Other: _____
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<p>Site: (Select up to 3 Sites)</p> <input type="checkbox"/> Blood <input type="checkbox"/> Catheter Specify catheter type: _____ <input type="checkbox"/> VAD driveline exit site <input type="checkbox"/> VAD inflow or outflow tract <input type="checkbox"/> VAD valve <input type="checkbox"/> VAD pump pocket <input type="checkbox"/> Nares <input type="checkbox"/> Oral mucosa <input type="checkbox"/> Pharynx <input type="checkbox"/> Pleural Fluid	<input type="checkbox"/> Rectal mucosa <input type="checkbox"/> Rectum <input type="checkbox"/> Skin <input type="checkbox"/> Sputum <input type="checkbox"/> Stool <input type="checkbox"/> Tracheotomy site <input type="checkbox"/> Urine <input type="checkbox"/> Wound/Drainage Specify drainage: _____ <input type="checkbox"/> Other Specify: _____
<input type="checkbox"/> Myocardial Infarction - Perioperative Check criteria (all three have to be present to be classified as a perioperative MI) <input type="checkbox"/> Clinical suspicion of MI <input type="checkbox"/> CK-MB or Troponin > 10 x ULN <input type="checkbox"/> ECG consistent with acute MI	
<input type="checkbox"/> Myocardial Infarction - Non-perioperative Check criteria (two of three have to be present to be classified as a non-perioperative MI) <input type="checkbox"/> Chest pain <input type="checkbox"/> ECG with a pattern or changes consistent with a myocardial infarction <input type="checkbox"/> Troponin or CK greater than the normal range with positive CK-MB	
<input type="checkbox"/> Myocardial Rupture With hemodynamic instability? <input type="checkbox"/> No <input type="checkbox"/> Yes Presence evidenced by <input type="checkbox"/> Direct visualization <input type="checkbox"/> Echo <input type="checkbox"/> Ventriculography <input type="checkbox"/> Other (specify): _____	
<input type="checkbox"/> Neurological Dysfunction <input type="checkbox"/> Transient Ischemic Attack -TIA <input type="checkbox"/> Ischemic Stroke - CVA <input type="checkbox"/> Hemorrhagic Stroke - CVA <input type="checkbox"/> Toxic Metabolic Encephalopathy <input type="checkbox"/> Other Neurological Dysfunction (specify): _____	
<input type="checkbox"/> Psychiatric Episode	
<input type="checkbox"/> Acute Renal Dysfunction	
<input type="checkbox"/> Chronic Renal Dysfunction Did the patient require dialysis? <input type="checkbox"/> No <input type="checkbox"/> Yes If yes, specify type <input type="checkbox"/> CVVH <input type="checkbox"/> HD <input type="checkbox"/> PD	
<input type="checkbox"/> Respiratory Failure	
<input type="checkbox"/> Right Heart Failure (Specify Intervention required to treat the signs and symptoms of RHF): <input type="checkbox"/> RVAD implantation <input type="checkbox"/> Intravenous inotropic therapy <input type="checkbox"/> Inhaled nitric oxide Check all signs/symptoms that apply(At least one box should be checked) <input type="checkbox"/> CVP > 18 mmHg <input type="checkbox"/> CI < 2.0 L/min/m ² <input type="checkbox"/> Ascites <input type="checkbox"/> Peripheral Edema	
<input type="checkbox"/> Arterial Non-CNS Thromboembolism, specify location: <input type="checkbox"/> Renal <input type="checkbox"/> Hepatic <input type="checkbox"/> Splenic <input type="checkbox"/> Bowel <input type="checkbox"/> Limb <input type="checkbox"/> Other (specify): _____	

<input type="checkbox"/> Venous Thromboembolism Event , specify location: <input type="checkbox"/> Deep vein thrombosis <input type="checkbox"/> Pulmonary embolism <input type="checkbox"/> Other (specify): _____

<input type="checkbox"/> Wound Dehiscence
--

<input type="checkbox"/> Vasodilatory State
--

<input type="checkbox"/> Unexpected Other Serious Adverse Event , specify: _____

5. Seriousness of Adverse Event

Seriousness of Adverse Event <input type="checkbox"/> Serious (If serious, notify DCC immediately) <input type="checkbox"/> Not Serious
--

If this is a serious adverse event, specify reasons (check all that apply) <input type="checkbox"/> Fatal <input type="checkbox"/> Life threatening <input type="checkbox"/> Results in permanent disability <input type="checkbox"/> Requires hospitalization <input type="checkbox"/> Prolongs hospital stay

Patient ID: ---

Date of Study Completion/Early Termination: //
d d m m m y y y y

Choose primary reason for completion or early termination (check one):

Heart Transplantation,

If Heart Transplantation checked, enter start time of anesthesia (24 hour clock): :

Study Completion at 12 months post randomization

Death. Complete mortality form.

Investigator decision to withdraw patient. Explain: _____

Patient withdrawal of consent. Explain: _____

Other. Explain: _____

Patient ID: ---

Date of Death: //
 d d m m m y y y y

Patient ID: - - -

Adverse Event ID#

Patient ID: - - -

ADVERSE EVENT ADJUDICATION

Date of Adjudication	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> d d m m m y y y y
Overall Event Assessment	<input type="checkbox"/> Agree with Adverse Event Classification <input type="checkbox"/> Disagree with Adverse Event Classification <input type="checkbox"/> Not a Serious or Protocol Defined Adverse Event <input type="checkbox"/> Secondary Manifestation of a Previously Reported Adverse Event: Specify AEID <input type="text"/> <input type="text"/> <input type="text"/> <input type="checkbox"/> Need Additional Information to Adjudicate Adverse Event: List additional information required _____

Seriousness of Adverse Event

<input type="checkbox"/> Agree with Seriousness of Adverse Event Classification
<input type="checkbox"/> Disagree with Seriousness of Adverse Event Classification If Disagree, Reclassify: <input type="checkbox"/> Serious <input type="checkbox"/> Not Serious If reclassified as serious, check all that apply: <input type="checkbox"/> Fatal <input type="checkbox"/> Life threatening <input type="checkbox"/> Results in permanent disability <input type="checkbox"/> Requires hospitalization <input type="checkbox"/> Prolongs hospital stay
<input type="checkbox"/> Need Additional Information to Adjudicate Seriousness of Adverse Event Classification List Additional Information Required: _____

AE Reclassification

1.	<input type="checkbox"/> Reaction to Fetal Calf Serum or Murine Mouse Antibody
2.	<input type="checkbox"/> Reaction to Dimethyl Sulfoxide
3.	<input type="checkbox"/> Potential Study Product Contamination
4.	<input type="checkbox"/> Potential Inflammatory Responses
5.	<input type="checkbox"/> Possible Effects of Cells on Fetus
6.	<input type="checkbox"/> Neoplasm
7.	<input type="checkbox"/> Major Bleeding (non-intraoperative)
8.	<input type="checkbox"/> Intraoperative Bleeding
9.	<input type="checkbox"/> Cardiac Arrhythmias-Cardiac arrest
10.	<input type="checkbox"/> Cardiac Arrhythmias-sustained ventricular arrhythmia requiring defibrillation or cardioversion
11.	<input type="checkbox"/> Cardiac Arrhythmias-sustained supraventricular arrhythmia requiring drug treatment or cardioversion
12.	<input type="checkbox"/> Cardiac conduction abnormalities or sustained bradycardia requiring permanent pacemaker placement
13.	<input type="checkbox"/> Pericardial Fluid Collection
14.	<input type="checkbox"/> Inflammatory Reaction- Hypersensitivity Reaction
15.	<input type="checkbox"/> Inflammatory Reaction- Immune Sensitization
16.	<input type="checkbox"/> Device Malfunction -Pump Failure
17.	<input type="checkbox"/> Device Malfunction -Non-Pump Failure

18.	<input type="checkbox"/>	Device Malfunction -Pump Thrombus-suspected
19.	<input type="checkbox"/>	Device Malfunction -Pump Thrombus-confirmed
20.	<input type="checkbox"/>	Hemolysis
21.	<input type="checkbox"/>	Hepatic Dysfunction
22.	<input type="checkbox"/>	Hypertension
23.	<input type="checkbox"/>	Major Infection-Localized Non-Device Infection
24.	<input type="checkbox"/>	Major Infection- Percutaneous Site
25.	<input type="checkbox"/>	Major Infection-Internal Pump Component Inflow or Outflow Tract Infection
26.	<input type="checkbox"/>	Major Infection-Sepsis
27.	<input type="checkbox"/>	Major Infection- Infectious Myocarditis
28.	<input type="checkbox"/>	Major Infection-Infectious Pericarditis
29.	<input type="checkbox"/>	Myocardial Infarction-Perioperative
30.	<input type="checkbox"/>	Myocardial Infarction-Non-perioperative
31.	<input type="checkbox"/>	Myocardial Rupture
32.	<input type="checkbox"/>	Neurological Dysfunction-TIA
33.	<input type="checkbox"/>	Neurological Dysfunction-Ischemic Stroke
34.	<input type="checkbox"/>	Neurological Dysfunction-Hemorrhagic Stroke
35.	<input type="checkbox"/>	Neurological Dysfunction-Toxic Metabolic Encephalopathy
36.	<input type="checkbox"/>	Neurological Dysfunction-Other, specify: _____
37.	<input type="checkbox"/>	Psychiatric Episode
38.	<input type="checkbox"/>	Renal Dysfunction-Acute
39.	<input type="checkbox"/>	Renal Dysfunction-Chronic
40.	<input type="checkbox"/>	Respiratory Failure
41.	<input type="checkbox"/>	Right Heart Failure
42.	<input type="checkbox"/>	Arterial Non-CNS Thromboembolism
43.	<input type="checkbox"/>	Venous Thromboembolism Event
44.	<input type="checkbox"/>	Wound Dehiscence
45.	<input type="checkbox"/>	Vasodilatory State
46.	<input type="checkbox"/>	Other Serious Adverse Event, specify: _____