



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA006				
Acrostic Identifier:				
Study ID:				
Date source form completed: ____/____/____				
Physical Exam - Day of Injection				
Date of Exam: ____/____/____		<input type="checkbox"/> Visit is outside time window	Reason:	
<input type="checkbox"/> Informed consent was revised since study start date				
Date patient reconsented: ____/____/____		Consent version:		
Vital Signs		NYHA Class:	CCS Class:	
Weight:	_____ pounds	<input type="checkbox"/> I	<input type="checkbox"/> I	
Temperature:	_____°F <input type="checkbox"/> oral <input type="checkbox"/> auricle	<input type="checkbox"/> II	<input type="checkbox"/> II	
Respirations:	___ breaths/minute	<input type="checkbox"/> III	<input type="checkbox"/> III	
Heart rate:	___ beats/minute	<input type="checkbox"/> IV	<input type="checkbox"/> IV	
Blood Pressure:	___ / ___ mmHg (supine)	<input type="checkbox"/> N/A	<input type="checkbox"/> N/A	
	SBP DBP			
Review of Systems:				
Have changes occurred since previous visit? Yes <input type="checkbox"/> No <input type="checkbox"/> If no, table is complete.				
<u>Organs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Not Examined</u>	<u>Describe</u>
Skin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HEENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lungs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Abdomen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lymph Nodes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Musculoskeletal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Neurological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Questions:				
Has the patient experienced any new adverse events? (If yes, complete AE form)		Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Have there been any significant changes in physical findings since last visit? (If yes, please explain in comments)		Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Have there been any changes to medications? (If yes, update medication form)		Yes <input type="checkbox"/>	No <input type="checkbox"/>	



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Date source form completed: ____/____/____			
Physical Exam - Day of Injection			
Questions:			
Was the NIH Stroke Scale assessment completed? (If not done, or if result is evidence of deficit, please explain in comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No evidence of deficit <input type="checkbox"/> Evidence of deficit <input type="checkbox"/>
Was the baseline MRI (if applicable) completed and results sent to the Core Lab? (If no, please explain in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Was the routine no contrast transthoracic Echo performed immediately after product delivery while in the coronary angiography recovery area to determine the presence of a pericardial effusion? (If not done, or if result abnormal, please explain in comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Normal <input type="checkbox"/> Abnormal <input type="checkbox"/>
Was the routine no contrast Echo completed 4-6 hours post procedure Lab? (If not done, or if result abnormal, please explain in comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Normal <input type="checkbox"/> Abnormal <input type="checkbox"/>
Were five 10 ml venous blood (purple top tubes) for FACS analysis and one 10 ml venous blood (green top heparin tube) for plasma cryostorage drawn to ship to the biorepository? (If no, please explain in the Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Verify patient consented to Biorepository before you draw Biorepository bloods.			
Has there been a change in nitrate usage since last visit? (If yes, please update medication form)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
*Please remember to update medication form with inter-visit changes to medications			
Comments:			

Entered to eCRF Initials _____



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FORM NO. CNA029	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____ / ____ / ____	
Bone Marrow Aspiration	
Procedure Date:	____ / ____ / ____
Procedure Venue:	<input type="checkbox"/> Patient Room <input type="checkbox"/> Cath Lab <input type="checkbox"/> OR
Time initial aspiration start:	__ __ : __ __
Time aspiration complete:	__ __ : __ __
Total amount aspirated:	__ __ __ ml
Did the patient experience an adverse event during the procedure? (If yes, complete AE or SAE form)	Yes <input type="checkbox"/> No <input type="checkbox"/>
Were concomitant medications given? (If yes, add to medication form)	Yes <input type="checkbox"/> No <input type="checkbox"/>
Comments:	

Entered to eCRF

Initials _____



FORM NO. CNA031	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
Vital Signs Pre-Procedure (Pre-Study Product Injection)	
Date: ____/____/____ Time: ____:__	
Temperature:	____.____°F <input type="checkbox"/> oral <input type="checkbox"/> auricle
Respirations:	____ breaths/min
Heart rate:	____ beats/min
Blood Pressure:	____ / ____ mmHg (supine) SBP DBP
Study Product Injection Period	
Procedure	Start Date: ____/____/____
Mapping Procedure	Start Time: ____:____ Stop Time: ____:____
Injection Procedure	Start Time: ____:____ Stop Time: ____:____
Nitroglycerin given?	No <input type="checkbox"/> Yes <input type="checkbox"/> Amount: ____ mcg (IC)
Heparin given?	No <input type="checkbox"/> Yes <input type="checkbox"/> Amount: ____ units



FORM NO. CNA031

Acrostic Identifier: _____

Study ID: _____

Date source form completed: ____/____/____

Mapping / Injection Information

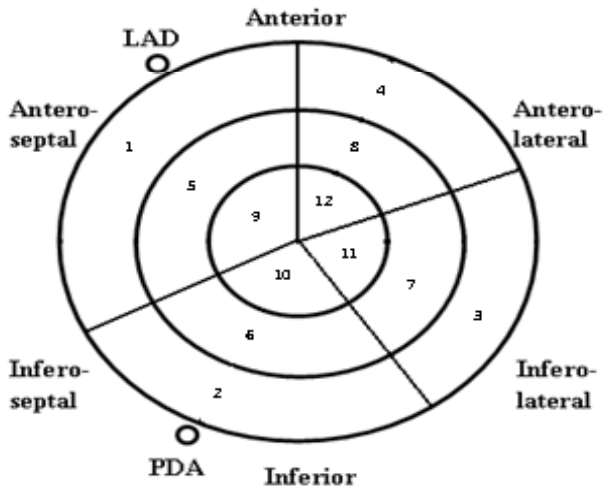
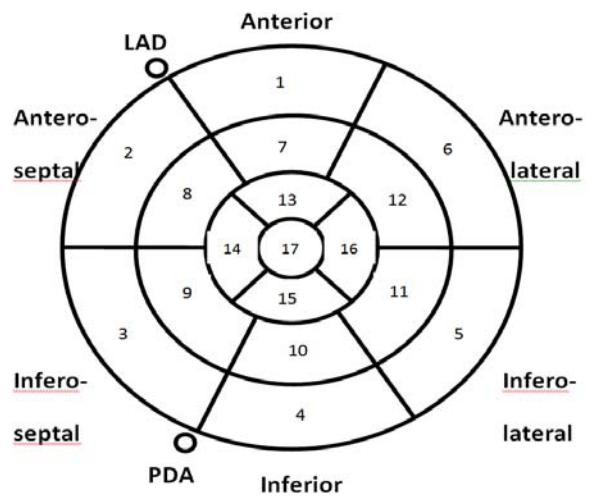
Number of Segments of testing device? 12 17

Mapping Segment	UPV	LLS	# Injections / segment
1	____ mV	____ %	____
2	____ mV	____ %	____
3	____ mV	____ %	____
4	____ mV	____ %	____
5	____ mV	____ %	____
6	____ mV	____ %	____
7	____ mV	____ %	____
8	____ mV	____ %	____
9	____ mV	____ %	____
10	____ mV	____ %	____
11	____ mV	____ %	____
12	____ mV	____ %	____
13	____ mV	____ %	____
14	____ mV	____ %	____
15	____ mV	____ %	____
16	____ mV	____ %	____
17	____ mV	____ %	____

17 segment (TX)

12 segment (CL, FL, MN, VN)

Diagram of Mapping Segments



Total Mapping Points: _____ Sum of Injection Points: _____



FORM NO. CNA031

Acrostic Identifier: _____

Study ID: _____

Date source form completed: ____/____/____

Injection Information

Injection Points	Segment Number	Loop Stability	ST Elevation	UPV	Presence of PVCs	Volume of Injection	Arrhythmia Present	Not Done
1		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
2		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
3		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
4		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
5		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
6		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
7		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
8		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
9		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
10		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
11		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
12		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
13		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
14		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
15		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
16		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
17		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
18		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
19		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>
20		____ mm	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ mV	Yes <input type="checkbox"/> No <input type="checkbox"/>	____ ml	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>

Total Injections: _____ Total Volume: _____



FORM NO. CNA031	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
Vital Signs Post-Procedure (Post-Study Product Injection)	
Date: ____/____/____ Time: __ __:__ __	
Temperature:	__ __. __ °F <input type="checkbox"/> oral <input type="checkbox"/> auricle
Respirations:	__ __ breaths/minute
Heart rate:	__ __ __ beats/minute
Blood Pressure:	__ __ __ / __ __ __ mmHg (supine) SBP DBP
Questions	
1. Was there any difficulty with mapping? (If yes, please explain in Comments)	Yes <input type="checkbox"/> No <input type="checkbox"/>
2. Did the patient experience an adverse event during mapping? (If yes, complete AE or SAE form)	Yes <input type="checkbox"/> No <input type="checkbox"/>
3. Were all 15 injections given? (If no, please explain in Comments)	Yes <input type="checkbox"/> No <input type="checkbox"/>
4. Was the injection procedure prematurely stopped due to any reason listed in Section 7.6 of the Protocol? (If yes, complete AE or SAE, and/or UP form)	Yes <input type="checkbox"/> No <input type="checkbox"/>
5. Was the procedure restarted?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
6. Did the patient experience an adverse event during the injection procedure? (If yes, complete AE or SAE form)	Yes <input type="checkbox"/> No <input type="checkbox"/>
7. Were concomitant medications given? (If yes, add to Medication form)	Yes <input type="checkbox"/> No <input type="checkbox"/>
Comments:	

Entered to eCRF Initials _____



FORM NO. CNA031

Acrostic Identifier:

Study ID:

Date source form completed: ____/____/____

7.6 Guidance for NOGA Catheter Usage (Per protocol version date: 11/5/08)

If any of the following symptoms occur either during LV mapping with the NOGA XP System or during endocardial injections with the MyoStar Injection Catheter, they could indicate a serious clinical deterioration. If any of the following events / symptoms occur, the procedure should be temporarily halted and the patient should be reevaluated for suitability to continue with the treatment under investigation: product administration should be discontinued.

- persistent complaints of chest pain;
- complains of cardiac pain associated with injections;
- persistent hypotension;
- complaints of shortness of breath;
- ICD shocks to stop ventricular tachycardia (VT);
- DC cardioversion or defibrillation for VT;
- there is any question as to the location of the catheter tip in relation to vasculature or the LV;
- any unanticipated change in level of consciousness or neurological status.

The procedure will be terminated in the event of:

- sustained hypotension not responsive to fluid administration;
- clinical signs and symptoms indicating acute coronary syndrome;
- clinical signs and symptoms indicating a cerebrovascular accident;
- cardiac tamponade is strongly suspected or confirmed;
- hemopericardium requiring pericardiocentesis
- two episodes of sustained ventricular tachycardia requiring cardioversion or administration of an antiarrhythmic;
- the patient experiences one episode of ventricular fibrillation (VF);
- identification of thrombus in the LV or the Aorta that was not previously present on echo or left ventriculogram;
- an aortic dissection is suspected or confirmed.;
- cardiac perforation;
- excessive bleeding from the bone marrow harvest site;
- fever of 99.4 degrees or higher;
- hemodynamically unstable.



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA023	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
Holter Data Form - Day of Injection	
Date procedure started: ____/____/____	Predominant Rhythm: (<i>mutually exclusive</i>)
Total recording time: ____:____	<input type="checkbox"/> Sinus Rhythm <input type="checkbox"/> Junctional Rhythm
General:	<input type="checkbox"/> Paced Rhythm <input type="checkbox"/> Ectopic Atrial Rhythm
Total beats/QRS Complexes: _____ beats	<input type="checkbox"/> Atrial Flutter / Fibrillation
Paced beats: _____ beats	Heart Rates:
Pauses/Longest RR Interval (> 2 secs):	Minimum: ____beats/min. @ ____:____
Longest pause was ____ seconds @ ____:____	Average: ____beats/min.
Total number of pauses: _____	Maximum: ____beats/min. @ ____:____
Ventricular Arrhythmia Summary:	Supraventricular Arrhythmia Summary:
Single/PVC: _____ beats	Single/PAC: _____ beats
Couplets: _____	Couplets: _____
Total number of NSVT Runs (≥ 3 beats) _____	Total number of SVT Runs _____
Number of beats in longest NSVT run _____	Number of beats in longest SVT run _____
Total number of sustained ventricular tachycardia runs (≥ 30 secs) _____	Intermittent Atrial Fibrillation / Atrial Flutter:
	<input type="checkbox"/> Yes <input type="checkbox"/> No
	If yes, ____ total no. of episodes
	If yes, ____ . ____ min.secs (duration of longest episode)
AV Block: (Choose all that apply)	
<input type="checkbox"/> Transient AV block, 2nd degree-Mobitz type 1 (Wenkebach)	<input type="checkbox"/> N/A
____ total no. of episodes	____ duration of longest episode (secs)
<input type="checkbox"/> Transient AV block, 2nd degree-Mobitz type 2	<input type="checkbox"/> N/A
____ total no. of episodes	____ duration of longest episode (secs)
<input type="checkbox"/> Transient AV block, 3rd degree	<input type="checkbox"/> N/A
____ total no. of episodes	____ duration of longest episode (secs)
Comments:	

PI Signature: _____ Date: _____

Entered to eCRF Initials _____

FORM NO. CNA024	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
ECG - Day of Injection	
Date of Procedure: ____/____/____ Time: ____:____	
PR interval: 0.____ sec QRS interval: 0.____ sec QT interval: 0.____ sec HR: ____ bpm	
<input type="checkbox"/> ECG NORMAL <input type="checkbox"/> ECG NOT NORMAL	
Note: If you select "ECG NORMAL", you are done with this form.	
Rhythm: (Check all that apply)	
<input type="checkbox"/> normal sinus rhythm	<input type="checkbox"/> ventricular demand pacemaker (VVI)
<input type="checkbox"/> sinus arrhythmia	<input type="checkbox"/> atrial pacemaker
<input type="checkbox"/> sinus bradycardia (<60 bpm)	<input type="checkbox"/> dual chamber pacemaker (DDD)
<input type="checkbox"/> sinus tachycardia (>100 bpm)	<input type="checkbox"/> wandering pacemaker
<input type="checkbox"/> atrial fibrillation	<input type="checkbox"/> accelerated idioventricular rhythm
<input type="checkbox"/> atrial flutter	<input type="checkbox"/> atrial premature complexes
<input type="checkbox"/> multifocal atrial tachycardia	<input type="checkbox"/> ventricular premature complexes (PVCs)
<input type="checkbox"/> supraventricular tachycardia	<input type="checkbox"/> ventricular couplets
<input type="checkbox"/> junctional tachycardia	<input type="checkbox"/> junctional rhythm
<input type="checkbox"/> ventricular bigeminy	<input type="checkbox"/> ventricular fibrillation
<input type="checkbox"/> ectopic atrial rhythm	
<input type="checkbox"/> ventricular tachycardia (< 30 seconds) > 120 bpm <i>(must fill in a & b if this box is checked)</i>	
If ventricular tachycardia, please complete:	
a. Length: ____ complexes	b. Average Rate: ____ bpm
If patient is on pacemaker (as indicated above), choose level of pacing:	
<input type="checkbox"/> 100% paced	<input type="checkbox"/> intermittently paced <input type="checkbox"/> N/A <i>(If 100% paced, do not complete rest of form)</i>
AV Conduction Abnormalities: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> AV block, 1st degree	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 1 (Wenkebach)	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 2	
<input type="checkbox"/> AV block, 3rd degree	
Abnormalities of P wave: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left atrial enlargement	<input type="checkbox"/> Right atrial enlargement
Abnormalities of QRS axis: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left axis deviation(> -30°)	<input type="checkbox"/> Right axis deviation (> +100°)
QRS voltage abnormalities: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Low voltage	<input type="checkbox"/> Right ventricular hypertrophy
<input type="checkbox"/> Left ventricular hypertrophy	



FORM NO. CNA024						
Acrostic Identifier:						
Study ID:						
Date source form completed: ____/____/____						
ECG - Day of Injection						
Intraventricular conduction abnormalities: (Choose all that apply)						<input type="checkbox"/> NONE
<input type="checkbox"/>	Right bundle branch block, complete	<input type="checkbox"/>	Left bundle branch block, complete			
<input type="checkbox"/>	Right bundle branch block, incomplete	<input type="checkbox"/>	Left bundle branch block, incomplete			
<input type="checkbox"/>	Left anterior fascicular block	<input type="checkbox"/>	Nonspecific intraventricular conduction disturbance			
<input type="checkbox"/>	Left posterior fascicular block					
For each "Yes" response, check all locations that apply:						
Are Q waves present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment elevation present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment depression present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is T wave inversion present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is there evidence of posterior infarction?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Pathologic wave V ₂ <input type="checkbox"/>	R Abn. ST depression V ₁ , V ₂ <input type="checkbox"/>	Abn. ST elevation V ₁ , V ₂ <input type="checkbox"/>	
Is there evidence of RV infarction (right precordial leads)?	Y <input type="checkbox"/>	N <input type="checkbox"/>	N/A <input type="checkbox"/>			
Are there nonspecific ST and/or T wave abnormalities present?	Y <input type="checkbox"/>	N <input type="checkbox"/>				
Comments:						

PI Signature _____

Date: _____

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM #	DESCRIPTION of FOCUS FORMS	FOCUS Excel Wkbk tab name
CNA099	Screening/Demographics	Enrollmt
CNA001	Eligibility	Elig
CNA003	Baseline Risk Factors & Other Cardiac Hx	Risk
CNA004	Baseline Non Cardio. Med. Hx	Med Hx
CNA005	Physical Exams	BSL PE/PE
CNA007	Treatment Checklist	Treatment
CNA011	Medication List	Meds
CNA012	Medication Allergies	Meds
CNA021	Labs (Panels)	Labs-panels
CNA022	Labs (M12)	Labs-M12
CNA023	Holter	Holter
CNA024	ECG	ECG
CNA026	Labs (Interim)	Labs-Interim
CNA027	Six Minute Walk Test	Walk Test
CNA029	Bone Marrow Aspiration	Aspir
CNA031	Study Product Injection	SPI
CNA041	Adverse Event	AE
CNA042	Serious Adverse Event	SAE
CNA043	Unanticipated Problem	UP
CNA044	Protocol Deviation	Prot Dev
CNA045	Schedule of Procedures	Sched Proc
CNA047	Data Glossary	
CNA048	Missing Form	Missing
CNA051	End of Study	End
CNA061	Minnesota Living with Heart Failure Questionnaire	MLHF
CNA062	SF-36	SF-36
CNA070	Phone Call Follow-up	



Cardiovascular Cell Therapy Research Network
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FORM NO. CNA045	
Acrostic Identifier:	
Study ID:	
Schedule of Procedures FOCUS	
Procedures	Time Window
Screening/Baseline	Consent + 50 days
Screen/Demographics Eligibility (Inclusion/Exclusion criteria) Baseline Labs Baseline Non-Cardiovascular History Baseline Risk Factors Baseline Allergies Baseline Medications Baseline PE Baseline Chest xray Baseline 6 min walk test Quality of Life Questionnaires Baseline ECG Baseline Holter ICD Interrogation (if applicable) Baseline TMT with MVO2 (core) Time of Test: _____ Baseline SPECT (core) Baseline Echo w/contrast (core) Treatment Checklist	
Aspiration/Injection (SPI)	SPI
Day of Injection PE Biorepository blood draws (if consented) Bone Marrow Aspiration Baseline cMRI (if applicable) (core) Cell Processing Cell Processing - Post Release Study Product Infusion ECG Holter Routine Echo immediately post procedure Routine Echo 4-6 hrs post procedure	SPI + 14 days
Day after Injection	SPI + 1 day
Day after Injection PE Biorepository blood draws (if consented) Labs ECG	
1 Week	SPI + 7 days +/- 2 days
PE Labs Holter Routine Echo ECG	
4 Weeks	SPI + 30 days +/- 5 days
PE Labs Biorepository blood draws (if consented) ECG Holter	



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FORM NO. CNA045	
Acrostic Identifier:	
Study ID:	
Schedule of Procedures FOCUS	
Procedures	Time Window
3 Month	SPI + 90 days +/- 7 days
PE Labs Biorepository blood draws (if consented) Holter ICD Interrogation (if applicable) Routine Echo ECG Quality of Life Questionnaires	
6 Month	SPI + 180 days +/- 30 days
PE Labs ECG Biorepository blood draws (if consented) Holter Echo w/contrast (core) Chest xray 6 min walk test Quality of Life Questionnaires cMRI (if applicable) (core) TMT with MVO2 (core) SPECT (core) ICD Interrogation (if applicable)	
12 Month	SPI + 365 days +/- 30 days
PE ECG Labs Quality of Life Questionnaires	
24 Month	SPI + 730 days +/- 30 days
Telephone F/U	
36 Month	SPI + 1095 days +/- 30 days
Telephone F/U	
48 Month	SPI + 1460 days +/- 30 days
Telephone F/U	
60 Month	SPI + 1825 days +/- 30 days
Telephone F/U End of Study	



FOCUS Labs by Visit Time Point				
Baseline	Day After Injection	Weeks 1 & 4	Months 3 & 6	Month 12
CBC with Differential	CBC with Differential	CBC with Differential	CBC with Differential	
WBC	WBC	WBC	WBC	
RBC	RBC	RBC	RBC	
Hgb	Hgb	Hgb	Hgb	
Hct	Hct	Hct	Hct	
MCV	MCV	MCV	MCV	
Platelets	Platelets	Platelets	Platelets	
WBC Differential	WBC Differential	WBC Differential	WBC Differential	
Neutrophils	Neutrophils	Neutrophils	Neutrophils	
Lymphocytes	Lymphocytes	Lymphocytes	Lymphocytes	
Monocytes	Monocytes	Monocytes	Monocytes	
Eosinophils	Eosinophils	Eosinophils	Eosinophils	
Basophils	Basophils	Basophils	Basophils	
Cardiac Enzymes	Cardiac Enzymes**	Cardiac Enzymes	Cardiac Enzymes	
Troponin I or T	Troponin I or T	Troponin I or T	Troponin I or T	
CK	CK	CK	CK	
CK-MB	CK-MB	CK-MB	CK-MB	
Chem-8				
Na+				
K+				
Chloride				
CO ₂				
Glucose				
BUN				
Creatinine				
Calcium				
Liver Function Tests	Liver Function Tests	Liver Function Tests	Liver Function Tests	
Bilirubin-Total	Bilirubin-Total	Bilirubin-Total	Bilirubin-Total	
Bilirubin-Direct	Bilirubin-Direct	Bilirubin-Direct	Bilirubin-Direct	
Total Protein	Total Protein	Total Protein	Total Protein	
Alk Phos	Alk Phos	Alk Phos	Alk Phos	
ALT	ALT	ALT	ALT	
AST	AST	AST	AST	
Other Tests	Other Tests	Other Tests	Other Tests	Other Tests
BNP	BNP	BNP	BNP	BNP
hsCRP	hsCRP	hsCRP	hsCRP	
PTT	BUN	BUN	BUN	
PT/INR	Creatinine	Creatinine	Creatinine	
Pregnancy Test*		Pregnancy Test* (wk 4)	Pregnancy Test*	Pregnancy Test*

* Other Tests/Pregnancy: women of childbearing potential

** Day After Infusion/Cardiac Enzymes: collected every 8 hours post infusion



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA099	
Date form completed: ____ / ____ / ____	
Screening / Demographics	
Last Name:	
First Name:	
Middle Initial:	
Consent signed <input type="checkbox"/>	Biorepository consent signed <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of Birth	____ / ____ / ____
Sex	M <input type="checkbox"/> F <input type="checkbox"/>
Hispanic	N <input type="checkbox"/> Y <input type="checkbox"/>
Race (choose one):	
White	<input type="checkbox"/>
Black or African American	<input type="checkbox"/>
Asian	<input type="checkbox"/>
Native Hawaiian or Other Pacific Islander	<input type="checkbox"/>
American Indian or Alaska Native	<input type="checkbox"/>
Other	<input type="checkbox"/>
Marital Status (choose one):	
Married	<input type="checkbox"/>
Living with a partner	<input type="checkbox"/>
Single/never married	<input type="checkbox"/>
Widowed	<input type="checkbox"/>
Divorced	<input type="checkbox"/>
Separated	<input type="checkbox"/>

Entered to eCRF Initials _____

FORM NO. CNA001		
Acrostic Identifier:		
Study ID:		
Date source form completed: / /		
Eligibility Criteria		
Y	N	Inclusion Criteria (Must answer Yes to all questions to be eligible)
<input type="checkbox"/>	<input type="checkbox"/>	Patient is at least 18 years of age.
<input type="checkbox"/>	<input type="checkbox"/>	Patient has significant coronary heart disease not amenable to revascularization.
<input type="checkbox"/>	<input type="checkbox"/>	Left ventricular ejection fraction $\leq 45\%$ as assessed by echocardiogram.
<input type="checkbox"/>	<input type="checkbox"/>	Limiting angina (Class II to IV) and/or CHF (NYHA Class II - III).
<input type="checkbox"/>	<input type="checkbox"/>	Patient is on maximal medical therapy. <u>Maximal medical therapy for anginal symptoms</u> is defined as a medical regimen that includes the maximal tolerated dose of at least two anti-angina medications, such as beta-blockers, nitrates, or calcium-channel blockers. One anticipates using a beta blocker or calcium channel blocker to reduce heart rate to 50-60 beats per minute and systolic blood pressure to 100-115 mm Hg in patients with angina or as tolerated clinically in order to evaluate them for limiting angina or angina that interferes with the life style the patient wishes to lead. <u>Maximal medical therapy for heart failure symptoms</u> includes beta-blockers (either a beta 1 blocker, such as metoprolol or non-specific beta blocker, such as carvedilol), ACE-1 or ARB (if creatinine ≤ 2.5) + diuretics.
<input type="checkbox"/>	<input type="checkbox"/>	Presence of reversibility as identified by SPECT (isotope protocol) and/or viability as identified by NOGA.
<input type="checkbox"/>	<input type="checkbox"/>	Coronary artery disease not well suited to any other type of revascularization procedure (percutaneous or surgical) in the target region of the ventricle. A cardiovascular surgeon and an interventional cardiologist (who are not investigators in the trial) will assess the subject's eligibility by chart review and recent diagnostic arteriogram (within 12 months) to determine percutaneous or surgical revascularization options. Patients should not be considered for revascularization procedures if they have an unsuitable coronary anatomy, including: total occlusion, poor targets for bypass grafts, small vessels, or diffuse disease affecting the distal vessel and making proximal revascularization ineffective. Patients could also have significant co-morbidities that would pose an unacceptable risk for surgical revascularization.
<input type="checkbox"/>	<input type="checkbox"/>	Hemodynamic stability as defined by systolic BP ≥ 80 mmHg without IV pressors or support devices.
<input type="checkbox"/>	<input type="checkbox"/>	Females of childbearing potential must be willing to use two forms of birth control for the duration of the study. (If male, check "Y")
<input type="checkbox"/>	<input type="checkbox"/>	Consent signed on ____/____/____.
Y	N	Exclusion Criteria (Must answer No to all questions to be eligible)
<input type="checkbox"/>	<input type="checkbox"/>	Atrial fibrillation or flutter without a pacemaker that guarantees a stable heart rate.
<input type="checkbox"/>	<input type="checkbox"/>	Unstable angina.
<input type="checkbox"/>	<input type="checkbox"/>	LV thrombus, as documented by echocardiography or LV angiography.
<input type="checkbox"/>	<input type="checkbox"/>	A vascular anatomy that precludes cardiac catheterization.
<input type="checkbox"/>	<input type="checkbox"/>	Severe valvular disease or mechanical aortic valve that would preclude safe entry of the catheter into the left ventricle.
<input type="checkbox"/>	<input type="checkbox"/>	Pregnant or lactating status. Pregnancy as determined by a positive urine pregnancy test at baseline.
<input type="checkbox"/>	<input type="checkbox"/>	Platelet count < 100 K/mm ³ .

FORM NO. CNA001		
Acrostic Identifier:		
Study ID:		
Date source form completed: / /		
Eligibility Criteria		
Y	N	Exclusion Criteria continued (Must answer No to all questions to be eligible)
<input type="checkbox"/>	<input type="checkbox"/>	WBC < 2 K/mm ³ .
<input type="checkbox"/>	<input type="checkbox"/>	Revascularization within 30 days.
<input type="checkbox"/>	<input type="checkbox"/>	TIA or stroke within 60 days of study enrollment.
<input type="checkbox"/>	<input type="checkbox"/>	ICD shock within 30 days of baseline screening.
<input type="checkbox"/>	<input type="checkbox"/>	Presence of sustained ventricular tachycardia (30 or more seconds) on 24 hour Holter monitor or ECG performed during screening period.
<input type="checkbox"/>	<input type="checkbox"/>	A bleeding diathesis defined as an INR ≥ 2.0 in the absence of warfarin therapy.
<input type="checkbox"/>	<input type="checkbox"/>	A history of malignancy in the last 5 years excluding basal cell carcinoma that has been surgically removed with proof of surgical clean margins.
<input type="checkbox"/>	<input type="checkbox"/>	Has a known history of HIV, or has active Hepatitis B or active Hepatitis C.
<input type="checkbox"/>	<input type="checkbox"/>	Any previous transplant requiring immunosuppressive medication.
<input type="checkbox"/>	<input type="checkbox"/>	A high-risk acute coronary syndrome (ACS) or a myocardial infarction in the month prior to evaluation. (ACS is defined as the presence of chest pain characteristic for angina, dynamic electrocardiography changes of ST segment depression or elevation and/or serum elevation of troponin I or T > 3X ULN (according to local laboratory)).
<input type="checkbox"/>	<input type="checkbox"/>	A left ventricular wall thickness of <8 mm (by echocardiogram) of the infero-lateral wall at the target site for cell injection.
<input type="checkbox"/>	<input type="checkbox"/>	Inability to walk on a treadmill except for class IV angina patients who will be evaluated separately. (If only reason patient is unable to walk on treadmill is class IV angina, then patient will be included.)
<input type="checkbox"/>	<input type="checkbox"/>	Potential patients enrolled in an investigational device or drug study within the previous 30 days.
<input type="checkbox"/>	<input type="checkbox"/>	Hepatic dysfunction, as defined as aspartate aminotransferase (AST) and /or alanine aminotranferase (ALT) > 1.5X ULN prior to study entry.
<input type="checkbox"/>	<input type="checkbox"/>	Chronic renal insufficiency as defined as a serum creatinine > 2.5 mg/dL or requires dialysis.
<input type="checkbox"/>	<input type="checkbox"/>	Any other condition that in the judgment of the investigator would be a contraindication to enrollment or follow-up.
Y	N	Special Criteria (Must answer No to first question OR Yes to both to be eligible)
<input type="checkbox"/>	<input type="checkbox"/>	Does the patient meet the following criteria: LVEF ≤ 35%; sinus rhythm; NYHA functional class III or ambulatory class IV symptoms despite recommended, optimal medical therapy; and has cardiac dyssynchrony (QRS duration > 0.12 ms)?
<input type="checkbox"/>	<input type="checkbox"/>	Did the patient who met the criteria above receive cardiac resynchronization therapy?



FORM NO. CNA001	
Acrostic Identifier:	
Study ID:	
Date source form completed:	/ /
Eligibility Criteria	
<input type="checkbox"/>	This patient became ineligible during the screening process; not all data were collected to answer every question; all questions addressed with the patient have been answered
<input type="checkbox"/>	An inclusion or exclusion criteria exemption, or approval for the most recent protocol amendment, has been granted by the CCTRN Medical Monitor or IRB respectively on one or more of the above items (comment required with a brief explanation; include detail if multiple criteria are involved)

PI Signature _____ Date: _____

RNC Signature _____ Date: _____

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA003

Acrostic Identifier:

Study ID:

Date source form completed: ___/___/___

Baseline Risk Factors

Diabetes

Diabetes Treatment:

- No Type I Type II
- Oral Hypoglycemics
- Insulin
- Neither

Hypertension

Hypertension Treatment:

- No Yes
- 1 medication
- 2 or more meds
- No medication

Hyperlipidemia

Hyperlipidemia Treatment:

- No Yes
- Diet controlled
- Drug controlled
- Neither

History of MI

- No Yes Unknown
- If yes, date most recent: ___/___/___

History of CABG

- No Yes Unknown
- If yes, date most recent: ___/___/___
- Total number vessels bypassed: ___
- Total number of CABG operation(s): ___

History of Congestive Heart Failure

- No Yes Unknown

History of cancer

- No Yes Unknown
- If yes, type of cancer: _____
- Date of diagnosis: ___/___/___

History of renal insufficiency

- No Yes Unknown

History of allergies

- No Yes Unknown
- If yes, list: _____

Family history of premature CAD

(males <55 females <65)

- No Yes Unknown

Angina Date most recent: ___/___/___

- No Stable Unstable

Carotid Disease, asymptomatic

- No Yes

History of TIAs or CVAs

- No Yes If yes, date most recent: ___/___/___

History of valvular heart disease

If yes, check all that apply:

- No Yes
- mitral
- aortic
- pulmonic
- tricuspid

History of Aneurysm

- No Yes



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FOCUS Protocol Workbook

FORM NO. CNA003

Acrostic Identifier:

Study ID:

Date source form completed: ___/___/___

Baseline Risk Factors

History of Stroke No current deficit completely resolved

History of PVD No Yes

History of arrhythmias No Yes Unknown
If yes, type: _____
Date of onset: ___/___/___

History of bleeding diathesis No Yes Unknown
If yes, please describe in Comments

Obese or history of obesity No Yes

Smoking Never Previous Current
Yr stopped: ___ packs/day: __

Other Cardiac History

Please describe interventions in the Comments section including number of interventions (if same procedure done more than once) and the specific vessel affected.

Prior to this hospitalization, have you been hospitalized for:	If yes, Date				
Congestive Heart Failure	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	___/___/___
Revascularizations	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	___/___/___
Previous MI	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	___/___/___
Bypass surgery	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	___/___/___
Cardiac catheterization	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	___/___/___
Cardiac pacemaker	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	___/___/___
Other coronary interventions	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	

If yes, please describe other coronary interventions:

Procedure:	Date:
1.	___/___/___
2.	___/___/___
3.	___/___/___
4.	___/___/___
5.	___/___/___

Questions:

If female, is patient of child bearing potential? No Yes N/A
If no, check one: post menopausal surgically sterile



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA003	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
Baseline Risk Factors	
Questions:	
Has perfusion scan been performed in the last three months? No <input type="checkbox"/> Yes <input type="checkbox"/>	
If yes, date: ____/____/____	
Type of scan: MRI <input type="checkbox"/> SPECT <input type="checkbox"/> PET <input type="checkbox"/> Stress Echo <input type="checkbox"/>	
Were there reversible defects present? No <input type="checkbox"/> Yes <input type="checkbox"/>	
Comments:	

Entered to eCRF

Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA004				
Acrostic Identifier:				
Study ID:				
Date source form completed: ____/____/____				
Baseline Non-Cardiovascular Medical History				
System	Not discussed	Unremarkable	Abnormal	Describe the abnormality
Ears, Nose, Throat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ophthalmic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Respiratory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
GI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Renal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Urogenital	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Neurologic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Endocrine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Musculoskeletal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Skin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Psychiatric	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Entered to eCRF

Initials _____



FORM NO. CNA012			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Medication Allergies			
Drug Allergies	NKDA <input type="checkbox"/>	Yes <input type="checkbox"/>	Please list:

FORM NO. CNA011								
Acrostic Identifier:								
Study ID:								
Date source form completed: ____/____/____								
Medications								
	Medication Class	Medication Name	Dose	Unit	Frequency	Prior to Study Start	Start Date	Stop Date
1						<input type="checkbox"/>		
2						<input type="checkbox"/>		
3						<input type="checkbox"/>		
4						<input type="checkbox"/>		
5						<input type="checkbox"/>		
6						<input type="checkbox"/>		
7						<input type="checkbox"/>		
8						<input type="checkbox"/>		
9						<input type="checkbox"/>		
10						<input type="checkbox"/>		
11						<input type="checkbox"/>		
12						<input type="checkbox"/>		
13						<input type="checkbox"/>		
14						<input type="checkbox"/>		
15						<input type="checkbox"/>		
16						<input type="checkbox"/>		
17						<input type="checkbox"/>		
18						<input type="checkbox"/>		
Comments								

Entered to eCRF Initials _____



Medication eCRF drop down list:

Drug Classes

Allopurinol
Angiotensin converting enzyme inhibitors
Antianginal
Antiarrhythmics
Antibiotics
Anticoagulants
Antiplatelet agents (non-aspirin)
Aspirin
Beta blockers
Calcium channel blockers
Cholesterol-lowering agents
Digitalis
Diuretics
Inotrope
Insulin
Nitrates
Non-ACE inhibitor arterial vasodilators (e.g. hydralazine)
Non-insulin hormones
Oral hypoglycemics
Other antihypertensives
Pain medications
Potassium
Supplements
Sympathetic blockers
Tranquilizers
Vaccines
Vasodilators
Others

Units

CAP=capsule
g=gram
GR=grain
GTT=drop
IU=international units
mg=milligram
mL=milliliter
oz=ounce
PUF=puff
SPY=spray/squirt
SUP=suppository
TAB=tablet
TBS=tablespoon
TSP=teaspoon
U=units
ug=microgram
uL=microliter
UNK=unknown
OTH=other (specify)

Frequency

BID=twice daily
ONCE=one dose
per hour
per minute
PRN=as needed
QD=once daily
QID=4 times/day
QOD=everyother day
TID=3 times/day
OTH=other (specify)

FORM NO. CNA024	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
ECG - Baseline	
Date of Procedure: ____/____/____ Time: ____:____	
PR interval: 0.____ sec QRS interval: 0.____ sec QT interval: 0.____ sec HR: ____ bpm	
<input type="checkbox"/> ECG NORMAL <input type="checkbox"/> ECG NOT NORMAL	
Note: If you select "ECG NORMAL", you are done with this form.	
Rhythm: (Check all that apply)	
<input type="checkbox"/> normal sinus rhythm	<input type="checkbox"/> ventricular demand pacemaker (VVI)
<input type="checkbox"/> sinus arrhythmia	<input type="checkbox"/> atrial pacemaker
<input type="checkbox"/> sinus bradycardia (<60 bpm)	<input type="checkbox"/> dual chamber pacemaker (DDD)
<input type="checkbox"/> sinus tachycardia (>100 bpm)	<input type="checkbox"/> wandering pacemaker
<input type="checkbox"/> atrial fibrillation	<input type="checkbox"/> accelerated idioventricular rhythm
<input type="checkbox"/> atrial flutter	<input type="checkbox"/> atrial premature complexes
<input type="checkbox"/> multifocal atrial tachycardia	<input type="checkbox"/> ventricular premature complexes (PVCs)
<input type="checkbox"/> supraventricular tachycardia	<input type="checkbox"/> ventricular couplets
<input type="checkbox"/> junctional tachycardia	<input type="checkbox"/> junctional rhythm
<input type="checkbox"/> ventricular bigeminy	<input type="checkbox"/> ventricular fibrillation
<input type="checkbox"/> ectopic atrial rhythm	
<input type="checkbox"/> ventricular tachycardia (< 30 seconds) > 120 bpm <i>(must fill in a & b if this box is checked)</i>	
If ventricular tachycardia, please complete:	
a. Length: ____ complexes	b. Average Rate: ____ bpm
If patient is on pacemaker (as indicated above), choose level of pacing:	
<input type="checkbox"/> 100% paced	<input type="checkbox"/> intermittently paced <input type="checkbox"/> N/A <i>(If 100% paced, do not complete rest of form)</i>
AV Conduction Abnormalities: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> AV block, 1st degree	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 1 (Wenkebach)	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 2	
<input type="checkbox"/> AV block, 3rd degree	
Abnormalities of P wave: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left atrial enlargement	<input type="checkbox"/> Right atrial enlargement
Abnormalities of QRS axis: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left axis deviation(> -30°)	<input type="checkbox"/> Right axis deviation (> +100°)
QRS voltage abnormalities: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Low voltage	<input type="checkbox"/> Right ventricular hypertrophy
<input type="checkbox"/> Left ventricular hypertrophy	



FORM NO. CNA024						
Acrostic Identifier:						
Study ID:						
Date source form completed: ____/____/____						
ECG - Baseline						
Intraventricular conduction abnormalities: (Choose all that apply)						<input type="checkbox"/> NONE
<input type="checkbox"/> Right bundle branch block, complete	<input type="checkbox"/> Right bundle branch block, incomplete	<input type="checkbox"/> Left bundle branch block, complete	<input type="checkbox"/> Left bundle branch block, incomplete			
<input type="checkbox"/> Left anterior fascicular block	<input type="checkbox"/> Left posterior fascicular block	<input type="checkbox"/> Nonspecific intraventricular conduction disturbance				
For each "Yes" response, check all locations that apply:						
Are Q waves present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment elevation present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment depression present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is T wave inversion present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is there evidence of posterior infarction?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Pathologic wave V ₂ <input type="checkbox"/>	R Abn. ST depression V ₁ , V ₂ <input type="checkbox"/>	Abn. ST elevation V ₁ , V ₂ <input type="checkbox"/>	
Is there evidence of RV infarction (right precordial leads)?	Y <input type="checkbox"/>	N <input type="checkbox"/>	N/A <input type="checkbox"/>			
Are there nonspecific ST and/or T wave abnormalities present?	Y <input type="checkbox"/>	N <input type="checkbox"/>				
Comments:						

PI Signature _____

Date: _____

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA005

Acrostic Identifier: _____

Study ID: _____

Date source form completed: ____ / ____ / ____

Physical Exam - Baseline

Date of Exam: ____ / ____ / ____ Visit is outside time window Reason: _____

Informed consent was revised since study start date

Date patient reconsented: ____ / ____ / ____ Consent version: _____

Vital Signs		NYHA Class:	CCS Class:
Height:	_____ inches	<input type="checkbox"/> I	<input type="checkbox"/> I
Weight:	_____ pounds	<input type="checkbox"/> II	<input type="checkbox"/> II
Temperature:	____.____°F <input type="checkbox"/> oral <input type="checkbox"/> auricle	<input type="checkbox"/> III	<input type="checkbox"/> III
Respirations:	____ breaths/minute	<input type="checkbox"/> IV	<input type="checkbox"/> IV
Heart rate:	____ beats/minute	<input type="checkbox"/> N/A	<input type="checkbox"/> N/A
Blood Pressure:	____ / ____ mmHg (supine) SBP DBP	LVEF: ____ % (by Echo)	Date: ____ / ____ / ____

Review of Systems:

Organs	Normal	Abnormal	Not Examined	Describe
Skin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HEENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lungs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Abdomen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lymph Nodes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Musculoskeletal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Neurological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Questions:

Has the patient experienced any adverse events since consent signed? (If yes, complete AE form) Yes No

Was the NIH Stroke Scale assessment completed? (If not done, or if result is evidence of deficit, please explain in comments) Yes No No evidence of deficit Evidence of deficit

Was a chest x-ray completed? (If not done, or if result abnormal, please explain in comments) Yes No Normal Abnormal



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA005			
Acrostic Identifier:			
Study ID:			
Date source form completed:	____ / ____ / ____		
Physical Exam - Baseline			
Questions:			
Was the baseline contrast Echo completed and results sent to the Core Lab? (If no, please enter a reason in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Was the baseline SPECT Scanning completed and results sent to the Core Lab? (If no, please explain in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Was the baseline Treadmill Test with MVO2 completed and results sent to the Core Lab? (If no, please explain in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Time of Test: ____:____
If applicable, was an ICD interrogation completed? (If no, please explain in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has the patient completed Quality of Life Questionnaires? (If no, please explain in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Has there been a change in nitrate usage since consent signed? (If yes, please update medication form)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
*Please remember to update medication form with inter-visit changes to medications			
Comments:			

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA021			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____ / ____ / ____			
Laboratory Tests - Baseline			
Date and time specimen obtained: Date: ____ / ____ / ____ Time: ____ : ____			
CBC with Differential	Result	Unit	Normal Range
WBC		K/mm ³	4.0-11.0 K/mm ³
RBC		M/mm ³	4.0-6.0 M/mm ³
Hgb		gm/dL	12.0-17.5 gm/dL
Hct		%	33-53%
MCV		fL	78-100 fL
Platelets		K/mm ³	135-450 K/mm ³
WBC Differential			
Neutrophils		%	36-74%
Lymphocytes		%	12-45%
Monocytes		%	0-13%
Eosinophils		%	0-8%
Basophils		%	< 3.0%
Cardiac Markers (Either Troponin T or Troponin I should be completed, NOT both)			
Troponin T		ng/ml	0.0-10 ng/ml
Troponin I		ng/ml	0.0-100 ng/ml
CK		U/L	25-10,000 U/L
CK-MB		ng/ml	0.0-250 ng/ml
Chem-8			
Na ⁺		mmol/L	132-148 mmol/L
K ⁺		mmol/L	3.3-5.5 mmol/L
Chloride		mmol/L	95-110 mmol/L
CO ₂		mmol/L	22-32 mmol/L
Glucose		mg/dL	65-110 mg/dL
Calcium		mg/dL	8.0-10.6 mg/dL
BUN		mg/dL	5-26 mg/dL
Creatinine		mg/dL	0.4-1.5 mg/dL



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA021			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____ / ____ / ____			
Laboratory Tests - Baseline			
Liver Function Tests			
Bilirubin-Total		mg/dL	0.0-1.5 mg/dL
Bilirubin-Direct		mg/dL	0.0-0.4 mg/dL
Total Protein		g/dL	6.0-8.5 g/dL
Alk Phos		U/L	30-150 U/L
ALT		U/L	0-50 U/L
AST		U/L	0-42 U/L
Other Tests			
BNP		pg/ml	0-100 pg/ml
hsCRP		mg/L	0.0-40 mg/L
PTT		seconds	21-39 secs
PT/INR		seconds	< 1.2 secs
Pregnancy Test (women of childbearing potential)			Negative (urine)
<input type="checkbox"/> Not applicable			< 5.0 mU/ml (quantitative blood)
Comments:			

PI Signature _____

Date: _____

Entered to eCRF

Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA023	
Acrostic Identifier:	
Study ID:	
Date source/workbook completed: ____/____/____	
Holter Data Form - Baseline	
Date procedure started: ____/____/____	Predominant Rhythm: <i>(mutually exclusive)</i> <input type="checkbox"/> Sinus Rhythm <input type="checkbox"/> Junctional Rhythm <input type="checkbox"/> Paced Rhythm <input type="checkbox"/> Ectopic Atrial Rhythm <input type="checkbox"/> Atrial Flutter / Fibrillation
Total recording time: ____:____	
General: Total beats/QRS Complexes: _____ beats Paced beats: _____ beats	Heart Rates: Minimum: ____beats/min. @ ____:____ Average: ____beats/min. Maximum: ____beats/min. @ ____:____
Pauses/Longest RR Interval (> 2 secs): Longest pause was ____ seconds @ ____:____ Total number of pauses: _____	
Ventricular Arrhythmia Summary: Single/PVC: _____ beats Couplets: _____ Total number of NSVT Runs (≥ 3 beats) _____ Number of beats in longest NSVT run _____ Total number of sustained ventricular tachycardia runs (≥ 30 secs) _____	
	Supraventricular Arrhythmia Summary: Single/PAC: _____ beats Couplets: _____ Total number of SVT Runs _____ Number of beats in longest SVT run _____ Intermittent Atrial Fibrillation / Atrial Flutter: <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, ____ total no. of episodes If yes, ____ . ____ min.secs (duration of longest episode)
AV Block: (Choose all that apply)	
<input type="checkbox"/> Transient AV block, 2nd degree-Mobitz type 1 (Wenkebach) <input type="checkbox"/> N/A ____ total no. of episodes _____ duration of longest episode (secs)	
<input type="checkbox"/> Transient AV block, 2nd degree-Mobitz type 2 <input type="checkbox"/> N/A ____ total no. of episodes _____ duration of longest episode (secs)	
<input type="checkbox"/> Transient AV block, 3rd degree <input type="checkbox"/> N/A ____ total no. of episodes _____ duration of longest episode (secs)	
Comments:	

PI Signature: _____ Date: _____

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA027	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
Six Minute Walk Test - <i>Baseline</i>	
Date of Walk Test: ____/____/____	
BASELINE	END OF TEST
Start Time ____:____	End Time ____:____
Heart Rate ____ bpm	Heart Rate ____ bpm
Stopped or paused? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, explain in Comments including reason	
Total distance walked ____ feet Enter 0 if patient unable to attempt; explain in Comments	
Comments:	
Test performed by: _____	

Entered to eCRF

Initials _____



FORM NO.CNA061

Acrostic Identifier:

Study ID:

Date source form completed: ___/___/___

Minnesota Living With Heart Failure Questionnaire - Baseline

MINNESOTA LIVING WITH HEART FAILURE® QUESTIONNAIRE

The following questions ask how much your heart failure (heart condition) affected your life during the past month (4 weeks). After each question, circle the 0, 1, 2, 3, 4 or 5 to show how much your life was affected. If a question does not apply to you, circle the 0 after that question.

Did your heart failure prevent you from living as you wanted during the past month (4 weeks) by -

Table with 7 columns: Question, No, Very Little, Little, Much, Very Much, Very Much. 21 rows of questions.

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Comments:

Entered to eCRF

Initials _____



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Baseline

This survey asks for your views about your health. This information will help keep track of how you feel and how well you are able to do your usual activities. Thank you for completing this survey!

For each of the following questions, please mark an in the one box that best describes your answer.

1. In general, would you say your health is:

Excellent	Very good	Good	Fair	Poor
▼	▼	▼	▼	▼
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

2. Compared to one year ago, how would you rate your health in general now?

Much better now than one year ago	Somewhat better now than one year ago	About the same as one year ago	Somewhat worse now than one year ago	Much worse now than one year ago
▼	▼	▼	▼	▼
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Baseline

3. The following items are about activities you might do during a typical day. Does your health now limit you in these activities? If so, how much?

Yes, limited a lot	Yes, limited a little	No, not limited at all
▼	▼	▼

- a Vigorous activities, such as running, lifting heavy objects, participating in strenuous sports ₁ ₂ ₃
- b Moderate activities, such as moving a table, pushing a vacuum cleaner, bowling, or playing golf ₁ ₂ ₃
- c Lifting or carrying groceries ₁ ₂ ₃
- d Climbing several flights of stairs ₁ ₂ ₃
- e Climbing one flight of stairs ₁ ₂ ₃
- f Bending, kneeling, or stooping ₁ ₂ ₃
- g Walking more than a mile ₁ ₂ ₃
- h Walking several blocks ₁ ₂ ₃
- i Walking one block ₁ ₂ ₃
- j Bathing or dressing yourself ₁ ₂ ₃



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Baseline

4. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of your physical health?

Yes	No
▼	▼

- a Cut down on the amount of time you spent on work or other activities..... ₁..... ₂
- b Accomplished less than you would like ₁..... ₂
- c Were limited in the kind of work or other activities ₁..... ₂
- d Had difficulty performing the work or other activities (for example, it took extra effort) ₁..... ₂

5. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of any emotional problems (such as feeling depressed or anxious)?

Yes	No
▼	▼

- a Cut down on the amount of time you spent on work or other activities..... ₁..... ₂
- b Accomplished less than you would like ₁..... ₂
- c Did work or other activities less carefully than usual..... ₁..... ₂



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Baseline

6. During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities with family, friends, neighbors, or groups?

Not at all



₁

Slightly



₂

Moderately



₃

Quite a bit



₄

Extremely



₅

7. How much bodily pain have you had during the past 4 weeks?

None



₁

Very mild



₂

Mild



₃

Moderate



₄

Severe



₅

Very Severe



₆

8. During the past 4 weeks, how much did pain interfere with your normal work (including both work outside the home and housework)?

Not at all



₁

A little bit



₂

Moderately



₃

Quite a bit



₄

Extremely



₅



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Baseline

9. These questions are about how you feel and how things have been with you during the past 4 weeks. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the past 4 weeks...

All of the time	Most of the time	A good bit of the time	Some of the time	A little of the time	None of the time
▼	▼	▼	▼	▼	▼

- a Did you feel full of pep?..... 1..... 2..... 3..... 4..... 5..... 6
- b Have you been a very nervous person?..... 1..... 2..... 3..... 4..... 5..... 6
- c Have you felt so down in the dumps that nothing could cheer you up? 1..... 2..... 3..... 4..... 5..... 6
- d Have you felt calm and peaceful?..... 1..... 2..... 3..... 4..... 5..... 6
- e Did you have a lot of energy? 1..... 2..... 3..... 4..... 5..... 6
- f Have you felt downhearted and blue?..... 1..... 2..... 3..... 4..... 5..... 6
- g Did you feel worn out? 1..... 2..... 3..... 4..... 5..... 6
- h Have you been a happy person?..... 1..... 2..... 3..... 4..... 5..... 6
- i Did you feel tired?..... 1..... 2..... 3..... 4..... 5..... 6



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Baseline

10. During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities (like visiting friends, relatives, etc.)?

All of the time	Most of the time	Some of the time	A little of the time	None of the time
▼	▼	▼	▼	▼
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

11. How TRUE or FALSE is each of the following statements for you?

	Definitely true	Mostly true	Don't know	Mostly false	Definitely false
	▼	▼	▼	▼	▼
a I seem to get sick a little easier than other people.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
b I am as healthy as anybody I know	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
c I expect my health to get worse	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
d My health is excellent	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

Comments:

Entered to eCRF

Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA007

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

Treatment Checklist

The following variables are autopopulated from the previously completed Screen/Demographics, Eligibility, Baseline Physical Exam and Baseline Laboratory Tests Forms:

Variable	Value	Criteria
Patient Age		Must be \geq 18 years old at consent date
LVEF		Must be \leq 45%
Temperature		Must be \leq 99.4 °F
CHF		NYHA must be II - III and/or
Angina		CCS must be II - IV
Systolic BP		Must be \geq 80 mmHg
WBC		Must be \geq 2 K/mm ³
PT/INR		Must be $<$ 2.0 secs or taking Warfarin
Troponin I or T		Must be \leq 300 ng/ml (Troponin I) or \leq 30 ng/ml (Troponin T)
Platelets		Must be \geq 100 K and \leq 500 K
ALT		Must be \leq 1.5x ULN (\leq 75 U/L)
AST		Must be \leq 1.5x ULN (\leq 61 U/L)
Creatinine		Must be \leq 2.5 mg/dl

If any of the variables above have changed since the Baseline Physical Exam or Baseline Laboratory Tests and a more recent exam or test has been done, please enter the updated value, date, and time of the re-check.

Variable	Value	Date	Time
LVEF		____/____/____	
Temperature		____/____/____	
Angina/CHF		____/____/____	
Systolic BP		____/____/____	
WBC		____/____/____	
PT/INR		____/____/____	
Troponin I or T		____/____/____	
Platelets		____/____/____	
ALT		____/____/____	
AST		____/____/____	
Creatinine		____/____/____	



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA007

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

Treatment Checklist

A baseline testing exemption has been granted by the CCTRN Medical Monitor on one or more of the above variables (comment required with a brief explanation; include detail if multiple variables are involved). **Answers to questions 1 through 3 below cannot be overridden by this.**

Please answer the following questions:

1. Are there explanations for abnormal reviews of symptoms on the Baseline Physical Exam that justify the patient's continuation in the study? (If yes, please explain in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
2. Since the baseline exam and tests, has there been a change in the patient's condition that would prohibit continuation in the study? (If yes, please explain in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
3. Is there any other reason you think this patient should not continue in the study? (If yes, please explain in the Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	

Comments:

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA005

Acrostic Identifier: _____

Study ID: _____

Date source form completed: ____/____/____

Physical Exam - Day After Injection

Date of Exam: ____/____/____ Visit is outside time window Reason: _____

Informed consent was revised since study start date

Date patient reconsented: ____/____/____ Consent version: _____

Vital Signs		NYHA Class:	CCS Class:
Weight: _____ pounds		<input type="checkbox"/> I	<input type="checkbox"/> I
Temperature: _____ °F <input type="checkbox"/> oral <input type="checkbox"/> auricle		<input type="checkbox"/> II	<input type="checkbox"/> II
Respirations: ____ breaths/minute		<input type="checkbox"/> III	<input type="checkbox"/> III
Heart rate: ____ beats/minute		<input type="checkbox"/> IV	<input type="checkbox"/> IV
Blood Pressure: _____ / _____ mmHg (supine) SBP DBP		<input type="checkbox"/> N/A	<input type="checkbox"/> N/A

Review of Systems:

Have changes occurred since previous visit? Yes No If no, table is complete.

Organs	Normal	Abnormal	Not Examined	Describe
Skin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HEENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lungs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Abdomen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lymph Nodes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Musculoskeletal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Neurological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Questions

Has the patient experienced any new adverse events? (If yes, complete AE form) Yes No

Have there been any significant changes in physical findings since last visit? (If yes, please explain in comments) Yes No

Have there been any changes to medications? (If yes, update medication form) Yes No



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA005	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
Physical Exam - Day After Injection	
Questions	
Was the NIH Stroke Scale assessment completed? (If not done, or if result is evidence of deficit, please explain in comments)	Yes <input type="checkbox"/> No <input type="checkbox"/> No evidence of deficit <input type="checkbox"/> Evidence of deficit <input type="checkbox"/>
Were two 10 ml venous blood (purple top tubes) for FACS analysis and one 10 ml venous blood (green top heparin tube) for plasma cryostorage drawn to ship to the biorepository? (If no, please explain in the Comments)	Yes <input type="checkbox"/> No <input type="checkbox"/>
Verify patient consented to Biorepository before you draw Biorepository bloods.	
Has there been a change in nitrate usage since last visit? (If yes, please update medication form)	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
*Please remember to update medication form with inter-visit changes to medications	
Comments:	

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA021			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Day After Injection			
Date and time specimen obtained: Date: ____/____/____ Time: ____:____			
CBC with Differential	Result	Unit	Normal Range
WBC		K/mm ³	4.0-11.0 K/mm ³
RBC		M/mm ³	4.0-6.0 M/mm ³
Hgb		gm/dL	12.0-17.5 gm/dL
Hct		%	33-53%
MCV		fL	78-100 fL
Platelets		K/mm ³	135-450 K/mm ³
WBC Differential			
Neutrophils		%	36-74%
Lymphocytes		%	12-45%
Monocytes		%	0-13%
Eosinophils		%	0-8%
Basophils		%	< 3.0%
Cardiac Markers (Either Troponin T or Troponin I should be completed, NOT both)			
8 hour	Date: ____/____/____ Time: ____:____		
Troponin T		ng/ml	0.0-10 ng/ml
Troponin I		ng/ml	0.0-100 ng/ml
CK		U/L	25-10,000 U/L
CK-MB		ng/ml	0.0-250 ng/ml
16 hour	Date: ____/____/____ Time: ____:____		
Troponin T		ng/ml	0.0-10 ng/ml
Troponin I		ng/ml	0.0-100 ng/ml
CK		U/L	25-10,000 U/L
CK-MB		ng/ml	0.0-250 ng/ml
24 hour	Date: ____/____/____ Time: ____:____		
Troponin T		ng/ml	0.0-10 ng/ml
Troponin I		ng/ml	0.0-100 ng/ml
CK		U/L	25-10,000 U/L
CK-MB		ng/ml	0.0-250 ng/ml



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA021			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Day After Injection			
Chem-8			
BUN		mg/dL	5-26 mg/dL
Creatinine		mg/dL	0.4-1.5 mg/dL
Liver Function Tests			
Bilirubin-Total		mg/dL	0.0-1.5 mg/dL
Bilirubin-Direct		mg/dL	0.0-0.4 mg/dL
Total Protein		g/dL	6.0-8.5 g/dL
Alk Phos		U/L	30-150 U/L
ALT		U/L	0-50 U/L
AST		U/L	0-42 U/L
Other Tests			
BNP		pg/ml	0-100 pg/ml
hsCRP		mg/L	0.0-40 mg/L
Comments:			

PI Signature _____

Date: _____

Entered to eCRF

Initials _____

FORM NO. CNA024	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
ECG - Day After Injection	
Date of Procedure: ____/____/____ Time: ____:____	
PR interval: 0.____ sec QRS interval: 0.____ sec QT interval: 0.____ sec HR: ____ bpm	
<input type="checkbox"/> ECG NORMAL <input type="checkbox"/> ECG NOT NORMAL	
Note: If you select "ECG NORMAL", you are done with this form.	
Rhythm: (Check all that apply)	
<input type="checkbox"/> normal sinus rhythm	<input type="checkbox"/> ventricular demand pacemaker (VVI)
<input type="checkbox"/> sinus arrhythmia	<input type="checkbox"/> atrial pacemaker
<input type="checkbox"/> sinus bradycardia (<60 bpm)	<input type="checkbox"/> dual chamber pacemaker (DDD)
<input type="checkbox"/> sinus tachycardia (>100 bpm)	<input type="checkbox"/> wandering pacemaker
<input type="checkbox"/> atrial fibrillation	<input type="checkbox"/> accelerated idioventricular rhythm
<input type="checkbox"/> atrial flutter	<input type="checkbox"/> atrial premature complexes
<input type="checkbox"/> multifocal atrial tachycardia	<input type="checkbox"/> ventricular premature complexes (PVCs)
<input type="checkbox"/> supraventricular tachycardia	<input type="checkbox"/> ventricular couplets
<input type="checkbox"/> junctional tachycardia	<input type="checkbox"/> junctional rhythm
<input type="checkbox"/> ventricular bigeminy	<input type="checkbox"/> ventricular fibrillation
<input type="checkbox"/> ectopic atrial rhythm	
<input type="checkbox"/> ventricular tachycardia (< 30 seconds) > 120 bpm <i>(must fill in a & b if this box is checked)</i>	
If ventricular tachycardia, please complete:	
a. Length: ____ complexes	b. Average Rate: ____ bpm
If patient is on pacemaker (as indicated above), choose level of pacing:	
<input type="checkbox"/> 100% paced	<input type="checkbox"/> intermittently paced <input type="checkbox"/> N/A <i>(If 100% paced, do not complete rest of form)</i>
AV Conduction Abnormalities: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> AV block, 1st degree	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 1 (Wenkebach)	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 2	
<input type="checkbox"/> AV block, 3rd degree	
Abnormalities of P wave: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left atrial enlargement	<input type="checkbox"/> Right atrial enlargement
Abnormalities of QRS axis: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left axis deviation(> -30°)	<input type="checkbox"/> Right axis deviation (> +100°)
QRS voltage abnormalities: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Low voltage	<input type="checkbox"/> Right ventricular hypertrophy
<input type="checkbox"/> Left ventricular hypertrophy	



FORM NO. CNA024						
Acrostic Identifier:						
Study ID:						
Date source form completed: ____/____/____						
ECG - Day After Injection						
Intraventricular conduction abnormalities: (Choose all that apply)						<input type="checkbox"/> NONE
<input type="checkbox"/> Right bundle branch block, complete	<input type="checkbox"/> Right bundle branch block, incomplete	<input type="checkbox"/> Left bundle branch block, complete	<input type="checkbox"/> Left bundle branch block, incomplete			
<input type="checkbox"/> Left anterior fascicular block	<input type="checkbox"/> Left posterior fascicular block	<input type="checkbox"/> Nonspecific intraventricular conduction disturbance				
For each "Yes" response, check all locations that apply:						
Are Q waves present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment elevation present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment depression present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is T wave inversion present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is there evidence of posterior infarction?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Pathologic wave V ₂ <input type="checkbox"/>	R Abn. ST depression V ₁ , V ₂ <input type="checkbox"/>	Abn. ST elevation V ₁ , V ₂ <input type="checkbox"/>	
Is there evidence of RV infarction (right precordial leads)?	Y <input type="checkbox"/>	N <input type="checkbox"/>	N/A <input type="checkbox"/>			
Are there nonspecific ST and/or T wave abnormalities present?	Y <input type="checkbox"/>	N <input type="checkbox"/>				
Comments:						

PI Signature _____

Date: _____

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA070	
Acrostic Identifier:	
Study ID:	
Date source/workbook completed: ____/____/____	
Follow-Up Telephone Contact	
Visit Type:	<input type="checkbox"/> Year 2 <input type="checkbox"/> Year 3 <input type="checkbox"/> Year 4 <input type="checkbox"/> Year 5 <input type="checkbox"/> Interim
Date of Call/Contact: ____/____/____	
Contact Initiated by (check one):	<input type="checkbox"/> Site <input type="checkbox"/> Subject
Questions being answered by:	<input type="checkbox"/> Patient <input type="checkbox"/> Family Member <input type="checkbox"/> Other
Section 1 - Vital Status	
a. What is the patient's vital status?	<input type="checkbox"/> Living <input type="checkbox"/> Deceased
If deceased, what is the known cause of death?	
b. Does the patient have an ICD?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, estimate the date last fired:	
Estimate the number of ICD firings since the last study contact (in the last year):	
c. Is the patient on an assist device?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, indicate device:	
d. Has the patient had a heart transplant?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, indicate date:	
Section 2 - Hospitalizations and Diagnoses	
Since the last time we spoke to you, have you had any hospitalizations for the following?	
e. Heart attack (myocardial infarction)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, provide estimated date:	
f. Bypass surgery (CABG)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, provide estimated date:	
g. Other heart procedures (caths, stent, balloons, etc.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
1) Describe:	Date:
2) Describe:	Date:
3) Describe:	Date:



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA070	
Acrostic Identifier:	
Study ID:	
Date source/workbook completed: ____/____/____	
Follow-Up Telephone Contact	
h. Resuscitative sudden death <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, provide estimated date:	
i. Any cancer diagnoses (including skin) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, provide estimated date:	
Indicate type of cancer(s):	
Comments:	
Name of person collecting information:	



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM COMPLETION ATTESTATION

All of the following forms associated with **Baseline Screening** have been completed and entered as electronic case report forms in the CCTRN web application, or a missing form has been noted.

1. CNA099 Screening/Demographics
2. CNA001 Eligibility
3. CNA003 Baseline Risk Factors & Other Cardiac History
4. CNA004 Baseline Non Cardiovascular Medical History
5. CNA011 Medication List*
6. CNA012 Medication Allergies*
7. CNA024 ECG (Baseline)
8. CNA005 Baseline Physical Exam
9. CNA021 Baseline Laboratory Tests
10. CNA023 Baseline Holter
11. CNA027 Baseline Six Minute Walk Test
12. CNA061 Minnesota Living with Heart Failure Questionnaire
13. CNA062 SF-36
14. CNA007 Treatment Checklist

*CNA011 and CNA012 are on the same page

Signature

Date

Printed Name



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM COMPLETION ATTESTATION

All of the following forms associated with **Aspiration/Injection** have been completed and entered as electronic case report forms in the CCTR web application, or a missing form has been noted.

1. CNA006 Day of Injection Physical Exam
2. CNA029 Bone Marrow Aspiration
3. CNA031 Study Product Injection
4. CNA023 Holter
5. CNA024 ECG

Signature

Date

Printed Name



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM COMPLETION ATTESTATION

All of the following forms associated with **Day after Injection** have been completed and entered as electronic case report forms in the CCTR web application, or a missing form has been noted.

- 1. CNA005 Day after Injection Physical Exam
- 2. CNA021 Day after Injection Laboratory Tests
- 3. CNA024 ECG

Signature

Date

Printed Name



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM COMPLETION ATTESTATION

All of the following forms associated with **Week 1 Follow-up Visit** have been completed and entered as electronic case report forms in the CCTR web application, or a missing form has been noted.

- 1. CNA005 Week 1 Physical Exam
- 2. CNA022 Week 1 Laboratory Tests
- 3. CNA023 Holter
- 4. CNA024 ECG

Signature

Date

Printed Name



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM COMPLETION ATTESTATION

All of the following forms associated with **Week 4 Follow-up Visit** have been completed and entered as electronic case report forms in the CCTR web application, or a missing form has been noted.

- 1. CNA005 Week 4 Physical Exam
- 2. CNA022 Week 4 Laboratory Tests
- 3. CNA023 Holter
- 4. CNA024 ECG

Signature

Date

Printed Name



Cardiovascular Cell Therapy Research Network
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FORM COMPLETION ATTESTATION

All of the following forms associated with **Month 3 Follow-up Visit** have been completed and entered as electronic case report forms in the CCTRN web application, or a missing form has been noted.

1. CNA005 Month 3 Physical Exam
2. CNA022 Month 3 Laboratory Tests
3. CNA023 Holter
4. CNA024 ECG
5. CNA061 Minnesota Living with Heart Failure Questionnaire
6. CNA062 SF-36

Signature

Date

Printed Name



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM COMPLETION ATTESTATION

All of the following forms associated with **Month 6 Follow-up Visit** have been completed and entered as electronic case report forms in the CCTRN web application, or a missing form has been noted.

1. CNA005 Month 6 Physical Exam
2. CNA022 Month 6 Laboratory Tests
3. CNA023 Holter
4. CNA024 ECG
5. CNA027 Six Minute Walk Test
6. CNA061 Minnesota Living with Heart Failure Questionnaire
7. CNA062 SF-36

Signature

Date

Printed Name



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM COMPLETION ATTESTATION

All of the following forms associated with **Month 12 Follow-up Visit** have been completed and entered as electronic case report forms in the CCTR web application, or a missing form has been noted.

1. CNA005 Month 12 Physical Exam
2. CNA022 Month 12 Laboratory Tests
3. CNA024 ECG
4. CNA061 Minnesota Living with Heart Failure Questionnaire
5. CNA062 SF-36

Signature

Date

Printed Name



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM COMPLETION ATTESTATION

All of the following forms associated with **Month 24 Follow-up Visit** have been completed and entered as electronic case report forms in the CCTRN web application, or a missing form has been noted.

1. CNA070 Telephone F/U

Signature

Date

Printed Name



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM COMPLETION ATTESTATION

All of the following forms associated with **Month 36 Follow-up Visit** have been completed and entered as electronic case report forms in the CCTRN web application, or a missing form has been noted.

1. CNA070 Telephone F/U

Signature

Date

Printed Name



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM COMPLETION ATTESTATION

All of the following forms associated with **Month 48 Follow-up Visit** have been completed and entered as electronic case report forms in the CCTRN web application, or a missing form has been noted.

1. CNA070 Telephone F/U

Signature

Date

Printed Name



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM COMPLETION ATTESTATION

All of the following forms associated with **Month 60 Follow-up Visit** have been completed and entered as electronic case report forms in the CCTRN web application, or a missing form has been noted.

1. CNA070 Telephone F/U
2. CNA051 End of Study

Signature

Date

Printed Name



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA005

Acrostic Identifier: _____

Study ID: _____

Date source form completed: ____/____/____

Physical Exam - Month 3

Date of Exam: ____/____/____ Visit is outside time window Reason: _____

Informed consent was revised since study start date

Date patient reconsented: ____/____/____ Consent version: _____

Vital Signs		NYHA Class:	CCS Class:
Weight: _____ pounds		<input type="checkbox"/> I	<input type="checkbox"/> I
Temperature: _____ °F <input type="checkbox"/> oral <input type="checkbox"/> auricle		<input type="checkbox"/> II	<input type="checkbox"/> II
Respirations: _____ breaths/minute		<input type="checkbox"/> III	<input type="checkbox"/> III
Heart rate: _____ beats/minute		<input type="checkbox"/> IV	<input type="checkbox"/> IV
Blood Pressure: _____ / _____ mmHg (supine) SBP DBP		<input type="checkbox"/> N/A	<input type="checkbox"/> N/A

Review of Systems:

Have changes occurred since previous visit? Yes No If no, table is complete.

<u>Organs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Not Examined</u>	<u>Describe</u>
Skin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HEENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lungs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Abdomen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lymph Nodes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Musculoskeletal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Neurological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Questions

Has the patient experienced a new adverse event since the last follow-up visit? (If yes, complete AE form) Yes No

Have there been any significant changes in physical findings since the last follow-up visit? (If yes, please explain in comments) Yes No

Have there been any changes to medications since the last follow-up visit? (If yes, update medication form) Yes No



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA005		
Acrostic Identifier:		
Study ID:		
Date source form completed: ____/____/____		
Physical Exam - Month 3		
Questions		
Was the NIH Stroke Scale assessment completed? (If not done, or if result is evidence of deficit, please explain in comments)	Yes <input type="checkbox"/> No <input type="checkbox"/>	No evidence of deficit <input type="checkbox"/> Evidence of deficit <input type="checkbox"/>
Was a routine no contrast Echo completed? (If not done, or if result abnormal, please explain in comments)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Normal <input type="checkbox"/> Abnormal <input type="checkbox"/>
If applicable, was the ICD interrogation completed? (If no, please explain in Comments)	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has the patient completed the Quality of Life Questionnaires? (If no, please explain in Comments)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Were two 10 ml venous blood (purple top tubes) for FACS analysis and one 10 ml venous blood (green top heparin tube) for plasma cryostorage drawn to ship to the biorepository? (If no, please explain in the Comments)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Verify patient consented to Biorepository before you draw Biorepository bloods.		
Has there been a change in nitrate usage since the last follow-up visit? (If yes, please update medication form)	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>
*Please remember to update medication form with inter-visit changes to medications		
Comments:		

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA021			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Month 3			
Date and time specimen obtained: Date: ____/____/____ Time: ____:____			
CBC with Differential	Result	Unit	Normal Range
WBC		K/mm ³	4.0-11.0 K/mm ³
RBC		M/mm ³	4.0-6.0 M/mm ³
Hgb		gm/dL	12.0-17.5 gm/dL
Hct		%	33-53%
MCV		fL	78-100 fL
Platelets		K/mm ³	135-450 K/mm ³
WBC Differential			
Neutrophils		%	36-74%
Lymphocytes		%	12-45%
Monocytes		%	0-13%
Eosinophils		%	0-8%
Basophils		%	< 3.0%
Cardiac Markers (Either Troponin T or Troponin I should be completed, NOT both)			
Troponin T		ng/ml	0.0-10 ng/ml
Troponin I		ng/ml	0.0-100 ng/ml
CK		U/L	25-10,000 U/L
CK-MB		ng/ml	0.0-250 ng/ml
Chem-8			
BUN		mg/dL	5-26 mg/dL
Creatinine		mg/dL	0.4-1.5 mg/dL
Liver Function Tests			
Bilirubin-Total		mg/dL	0.0-1.5 mg/dL
Bilirubin-Direct		mg/dL	0.0-0.4 mg/dL
Total Protein		g/dL	6.0-8.5 g/dL
Alk Phos		U/L	30-150 U/L
ALT		U/L	0-50 U/L
AST		U/L	0-42 U/L



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA021			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Month 3			
Other Tests			
BNP		pg/ml	0-100 pg/ml
hsCRP		mg/L	0.0-40 mg/L
Pregnancy Test (women of childbearing potential)			Negative (urine)
<input type="checkbox"/> Not applicable			< 5.0 mU/ml (quantitative blood)
Comments:			

PI Signature _____

Date: _____

Entered to eCRF

Initials _____



FORM NO. CNA023	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
Holter Data Form - Month 3	
Date procedure started: ____/____/____	Predominant Rhythm: <i>(mutually exclusive)</i> <input type="checkbox"/> Sinus Rhythm <input type="checkbox"/> Junctional Rhythm <input type="checkbox"/> Paced Rhythm <input type="checkbox"/> Ectopic Atrial Rhythm <input type="checkbox"/> Atrial Flutter / Fibrillation
Total recording time: ____:____	
General: Total beats/QRS Complexes: _____ beats Paced beats: _____ beats	Heart Rates: Minimum: _____beats/min. @ ____:____ Average: _____beats/min. Maximum: _____beats/min. @ ____:____
Pauses/Longest RR Interval (> 2 secs): Longest pause was ____ seconds @ ____:____ Total number of pauses: _____	
Ventricular Arrhythmia Summary: Single/PVC: _____ beats Couplets: _____ Total number of NSVT Runs (≥ 3 beats) _____ Number of beats in longest NSVT run _____ Total number of sustained ventricular tachycardia runs (≥ 30 secs) _____	Supraventricular Arrhythmia Summary: Single/PAC: _____ beats Couplets: _____ Total number of SVT Runs _____ Number of beats in longest SVT run _____ Intermittent Atrial Fibrillation / Atrial Flutter: <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, _____ total no. of episodes If yes, ____ . ____ min.secs (duration of longest episode)
AV Block: (Choose all that apply)	
<input type="checkbox"/> Transient AV block, 2nd degree-Mobitz type 1 (Wenkebach) <input type="checkbox"/> N/A _____ total no. of episodes _____ duration of longest episode (secs)	
<input type="checkbox"/> Transient AV block, 2nd degree-Mobitz type 2 <input type="checkbox"/> N/A _____ total no. of episodes _____ duration of longest episode (secs)	
<input type="checkbox"/> Transient AV block, 3rd degree <input type="checkbox"/> N/A _____ total no. of episodes _____ duration of longest episode (secs)	
Comments:	

PI Signature: _____ Date: _____

Entered to eCRF Initials _____



FORM NO. CNA024	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
ECG - Month 3	
Date of Procedure: ____/____/____ Time: ____:____	
PR interval: 0.____ sec QRS interval: 0.____ sec QT interval: 0.____ sec HR: ____ bpm	
<input type="checkbox"/> ECG NORMAL <input type="checkbox"/> ECG NOT NORMAL	
Note: If you select "ECG NORMAL", you are done with this form.	
Rhythm: (Check all that apply)	
<input type="checkbox"/> normal sinus rhythm	<input type="checkbox"/> ventricular demand pacemaker (VVI)
<input type="checkbox"/> sinus arrhythmia	<input type="checkbox"/> atrial pacemaker
<input type="checkbox"/> sinus bradycardia (<60 bpm)	<input type="checkbox"/> dual chamber pacemaker (DDD)
<input type="checkbox"/> sinus tachycardia (>100 bpm)	<input type="checkbox"/> wandering pacemaker
<input type="checkbox"/> atrial fibrillation	<input type="checkbox"/> accelerated idioventricular rhythm
<input type="checkbox"/> atrial flutter	<input type="checkbox"/> atrial premature complexes
<input type="checkbox"/> multifocal atrial tachycardia	<input type="checkbox"/> ventricular premature complexes (PVCs)
<input type="checkbox"/> supraventricular tachycardia	<input type="checkbox"/> ventricular couplets
<input type="checkbox"/> junctional tachycardia	<input type="checkbox"/> junctional rhythm
<input type="checkbox"/> ventricular bigeminy	<input type="checkbox"/> ventricular fibrillation
<input type="checkbox"/> ectopic atrial rhythm	
<input type="checkbox"/> ventricular tachycardia (< 30 seconds) > 120 bpm <i>(must fill in a & b if this box is checked)</i>	
If ventricular tachycardia, please complete:	
a. Length: ____ complexes	b. Average Rate: ____ bpm
If patient is on pacemaker (as indicated above), choose level of pacing:	
<input type="checkbox"/> 100% paced	<input type="checkbox"/> intermittently paced <input type="checkbox"/> N/A <i>(If 100% paced, do not complete rest of form)</i>
AV Conduction Abnormalities: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> AV block, 1st degree	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 1 (Wenkebach)	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 2	
<input type="checkbox"/> AV block, 3rd degree	
Abnormalities of P wave: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left atrial enlargement	<input type="checkbox"/> Right atrial enlargement
Abnormalities of QRS axis: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left axis deviation(> -30°)	<input type="checkbox"/> Right axis deviation (> +100°)
QRS voltage abnormalities: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Low voltage	<input type="checkbox"/> Right ventricular hypertrophy
<input type="checkbox"/> Left ventricular hypertrophy	



FORM NO. CNA024						
Acrostic Identifier:						
Study ID:						
Date source form completed: ____/____/____						
ECG - Month 3						
Intraventricular conduction abnormalities: (Choose all that apply)						<input type="checkbox"/> NONE
<input type="checkbox"/> Right bundle branch block, complete	<input type="checkbox"/> Right bundle branch block, incomplete	<input type="checkbox"/> Left bundle branch block, complete	<input type="checkbox"/> Left bundle branch block, incomplete			
<input type="checkbox"/> Left anterior fascicular block	<input type="checkbox"/> Left posterior fascicular block	<input type="checkbox"/> Nonspecific intraventricular conduction disturbance				
For each "Yes" response, check all locations that apply:						
Are Q waves present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment elevation present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment depression present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is T wave inversion present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is there evidence of posterior infarction?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Pathologic wave V ₂ <input type="checkbox"/>	R Abn. ST depression V ₁ , V ₂ <input type="checkbox"/>	Abn. ST elevation V ₁ , V ₂ <input type="checkbox"/>	
Is there evidence of RV infarction (right precordial leads)?	Y <input type="checkbox"/>	N <input type="checkbox"/>	N/A <input type="checkbox"/>			
Are there nonspecific ST and/or T wave abnormalities present?	Y <input type="checkbox"/>	N <input type="checkbox"/>				
Comments:						

PI Signature _____

Date: _____

Entered to eCRF Initials _____



FORM NO.CNA061
Acrostic Identifier:
Study ID:
Date source form completed: ____/____/____
Minnesota Living With Heart Failure Questionnaire - Month 3

MINNESOTA LIVING WITH HEART FAILURE® QUESTIONNAIRE

The following questions ask how much your heart failure (heart condition) affected your life during the past month (4 weeks). After each question, circle the 0, 1, 2, 3, 4 or 5 to show how much your life was affected. If a question does not apply to you, circle the 0 after that question.

Did your heart failure prevent you from living as you wanted during the past month (4 weeks) by -

	No	Very Little				Very Much
1. causing swelling in your ankles or legs?	0	1	2	3	4	5
2. making you sit or lie down to rest during the day?	0	1	2	3	4	5
3. making your walking about or climbing stairs difficult?	0	1	2	3	4	5
4. making your working around the house or yard difficult?	0	1	2	3	4	5
5. making your going places away from home difficult?	0	1	2	3	4	5
6. making your sleeping well at night difficult?	0	1	2	3	4	5
7. making your relating to or doing things with your friends or family difficult?	0	1	2	3	4	5
8. making your working to earn a living difficult?	0	1	2	3	4	5
9. making your recreational pastimes, sports or hobbies difficult?	0	1	2	3	4	5
10. making your sexual activities difficult?	0	1	2	3	4	5
11. making you eat less of the foods you like?	0	1	2	3	4	5
12. making you short of breath?	0	1	2	3	4	5
13. making you tired, fatigued, or low on energy?	0	1	2	3	4	5
14. making you stay in a hospital?	0	1	2	3	4	5
15. costing you money for medical care?	0	1	2	3	4	5
16. giving you side effects from treatments?	0	1	2	3	4	5
17. making you feel you are a burden to your family or friends?	0	1	2	3	4	5
18. making you feel a loss of self-control in your life?	0	1	2	3	4	5
19. making you worry?	0	1	2	3	4	5
20. making it difficult for you to concentrate or remember things?	0	1	2	3	4	5
21. making you feel depressed?	0	1	2	3	4	5

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Comments:

Entered to eCRF

Initials _____



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 3

This survey asks for your views about your health. This information will help keep track of how you feel and how well you are able to do your usual activities. *Thank you for completing this survey!*

For each of the following questions, please mark an in the one box that best describes your answer.

1. In general, would you say your health is:

Excellent	Very good	Good	Fair	Poor
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

2. Compared to one year ago, how would you rate your health in general now?

Much better now than one year ago	Somewhat better now than one year ago	About the same as one year ago	Somewhat worse now than one year ago	Much worse now than one year ago
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 3

3. The following items are about activities you might do during a typical day. Does your health now limit you in these activities? If so, how much?

Yes, limited a lot ▼	Yes, limited a little ▼	No, not limited at all ▼
-------------------------------	----------------------------------	-----------------------------------

- a Vigorous activities, such as running, lifting heavy objects, participating in strenuous sports ₁ ₂ ₃
- b Moderate activities, such as moving a table, pushing a vacuum cleaner, bowling, or playing golf ₁ ₂ ₃
- c Lifting or carrying groceries ₁ ₂ ₃
- d Climbing several flights of stairs ₁ ₂ ₃
- e Climbing one flight of stairs ₁ ₂ ₃
- f Bending, kneeling, or stooping ₁ ₂ ₃
- g Walking more than a mile ₁ ₂ ₃
- h Walking several blocks ₁ ₂ ₃
- i Walking one block ₁ ₂ ₃
- j Bathing or dressing yourself ₁ ₂ ₃



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 3

4. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of your physical health?

Yes	No
▼	▼

- a Cut down on the amount of time you spent on work or other activities..... ₁..... ₂
- b Accomplished less than you would like ₁..... ₂
- c Were limited in the kind of work or other activities ₁..... ₂
- d Had difficulty performing the work or other activities (for example, it took extra effort) ₁..... ₂

5. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of any emotional problems (such as feeling depressed or anxious)?

Yes	No
▼	▼

- a Cut down on the amount of time you spent on work or other activities..... ₁..... ₂
- b Accomplished less than you would like ₁..... ₂
- c Did work or other activities less carefully than usual..... ₁..... ₂



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 3

6. During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities with family, friends, neighbors, or groups?

Not at all



₁

Slightly



₂

Moderately



₃

Quite a bit



₄

Extremely



₅

7. How much bodily pain have you had during the past 4 weeks?

None



₁

Very mild



₂

Mild



₃

Moderate



₄

Severe



₅

Very Severe



₆

8. During the past 4 weeks, how much did pain interfere with your normal work (including both work outside the home and housework)?

Not at all



₁

A little bit



₂

Moderately



₃

Quite a bit



₄

Extremely



₅



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 3

9. These questions are about how you feel and how things have been with you during the past 4 weeks. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the past 4 weeks...

All of the time	Most of the time	A good bit of the time	Some of the time	A little of the time	None of the time
▼	▼	▼	▼	▼	▼

- a Did you feel full of pep?..... ₁..... ₂..... ₃..... ₄..... ₅..... ₆
- b Have you been a very nervous person?..... ₁..... ₂..... ₃..... ₄..... ₅..... ₆
- c Have you felt so down in the dumps that nothing could cheer you up? ₁..... ₂..... ₃..... ₄..... ₅..... ₆
- d Have you felt calm and peaceful?..... ₁..... ₂..... ₃..... ₄..... ₅..... ₆
- e Did you have a lot of energy? ₁..... ₂..... ₃..... ₄..... ₅..... ₆
- f Have you felt downhearted and blue?..... ₁..... ₂..... ₃..... ₄..... ₅..... ₆
- g Did you feel worn out? ₁..... ₂..... ₃..... ₄..... ₅..... ₆
- h Have you been a happy person?..... ₁..... ₂..... ₃..... ₄..... ₅..... ₆
- i Did you feel tired?..... ₁..... ₂..... ₃..... ₄..... ₅..... ₆



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 3

10. During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities (like visiting friends, relatives, etc.)?

All of the time	Most of the time	Some of the time	A little of the time	None of the time
▼	▼	▼	▼	▼
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

11. How TRUE or FALSE is each of the following statements for you?

	Definitely true	Mostly true	Don't know	Mostly false	Definitely false
	▼	▼	▼	▼	▼
a I seem to get sick a little easier than other people.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
b I am as healthy as anybody I know	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
c I expect my health to get worse	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
d My health is excellent.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

Comments:

Entered to eCRF

Initials _____



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA005

Acrostic Identifier: _____

Study ID: _____

Date source form completed: ____/____/____

Physical Exam - Month 6

Date of Exam: ____/____/____ Visit is outside time window Reason: _____

Informed consent was revised since study start date

Date patient reconsented: ____/____/____ Consent version: _____

Vital Signs		NYHA Class:	CCS Class:
Weight: _____ pounds		<input type="checkbox"/> I	<input type="checkbox"/> I
Temperature: _____ °F <input type="checkbox"/> oral <input type="checkbox"/> auricle		<input type="checkbox"/> II	<input type="checkbox"/> II
Respirations: ____ breaths/minute		<input type="checkbox"/> III	<input type="checkbox"/> III
Heart rate: ____ beats/minute		<input type="checkbox"/> IV	<input type="checkbox"/> IV
Blood Pressure: _____ / _____ mmHg (supine) SBP DBP		<input type="checkbox"/> N/A	<input type="checkbox"/> N/A

Review of Systems:

Have changes occurred since previous visit? Yes No If no, table is complete.

<u>Organs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Not Examined</u>	<u>Describe</u>
Skin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HEENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lungs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Abdomen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lymph Nodes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Musculoskeletal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Neurological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Questions

Has the patient experienced a new adverse event since the last follow-up visit? (If yes, complete AE form) Yes No

Have there been any significant changes in physical findings since the last follow-up visit? (If yes, please explain in comments) Yes No

Have there been any changes to medications since the last follow-up visit? (If yes, update medication form) Yes No



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA005			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Physical Exam - Month 6			
Questions			
Was the NIH Stroke Scale assessment completed? (If not done, or if result is evidence of deficit, please explain in comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No evidence of deficit <input type="checkbox"/> Evidence of deficit <input type="checkbox"/>
Was the MRI (if applicable) completed and results sent to the Core Lab? (If no, please explain in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Was the chest x-ray completed? (If not done, or if result abnormal, please explain in comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Normal <input type="checkbox"/> Abnormal <input type="checkbox"/>
Was the contrast Echo completed and results sent to the Core Lab? (If no, please enter a reason in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Was the SPECT Scanning completed and results sent to the Core Lab? (If no, please explain in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Was the Treadmill Test with MVO2 completed and results sent to the Core Lab? (If no, please explain in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Time of Test: ____:____
If applicable, was the ICD interrogation completed? (If no, please explain in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Has the patient completed the Quality of Life Questionnaires? (If no, please explain in Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Were two 10 ml venous blood (purple top tubes) for FACS analysis and one 10 ml venous blood (green top heparin tube) for plasma cryostorage drawn to ship to the biorepository? (If no, please explain in the Comments)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Verify patient consented to Biorepository before you draw Biorepository bloods.			
Has there been a change in nitrate usage since the last follow-up visit? (If yes, please update medication form)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
*Please remember to update medication form with inter-visit changes to medications			
Comments:			

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA021			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Month 6			
Date and time specimen obtained: Date: ____/____/____ Time: ____:____			
CBC with Differential	Result	Unit	Normal Range
WBC		K/mm ³	4.0-11.0 K/mm ³
RBC		M/mm ³	4.0-6.0 M/mm ³
Hgb		gm/dL	12.0-17.5 gm/dL
Hct		%	33-53%
MCV		fL	78-100 fL
Platelets		K/mm ³	135-450 K/mm ³
WBC Differential			
Neutrophils		%	36-74%
Lymphocytes		%	12-45%
Monocytes		%	0-13%
Eosinophils		%	0-8%
Basophils		%	< 3.0%
Cardiac Markers (Either Troponin T or Troponin I should be completed, NOT both)			
Troponin T		ng/ml	0.0-10 ng/ml
Troponin I		ng/ml	0.0-100 ng/ml
CK		U/L	25-10,000 U/L
CK-MB		ng/ml	0.0-250 ng/ml
Chem-8			
BUN		mg/dL	5-26 mg/dL
Creatinine		mg/dL	0.4-1.5 mg/dL
Liver Function Tests			
Bilirubin-Total		mg/dL	0.0-1.5 mg/dL
Bilirubin-Direct		mg/dL	0.0-0.4 mg/dL
Total Protein		g/dL	6.0-8.5 g/dL
Alk Phos		U/L	30-150 U/L
ALT		U/L	0-50 U/L
AST		U/L	0-42 U/L



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA021			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Month 6			
Other Tests			
BNP		pg/ml	0-100 pg/ml
hsCRP		mg/L	0.0-40 mg/L
Pregnancy Test (women of childbearing potential)			Negative (urine)
<input type="checkbox"/> Not applicable			< 5.0 mU/ml (quantitative blood)
Comments:			

PI Signature _____

Date: _____

Entered to eCRF

Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA027

Acrostic Identifier:

Study ID:

Date source form completed: ____/____/____

Six Minute Walk Test - *Month 6*

Date of Walk Test: ____/____/____

BASELINE

END OF TEST

Start Time ____:____

End Time ____:____

Heart Rate _____ bpm

Heart Rate _____ bpm

Stopped or paused? Yes No If yes, explain in Comments including reason

Total distance walked _____ feet Enter 0 if patient unable to attempt; explain in Comments

Comments:

Test performed by: _____

Entered to eCRF

Initials _____



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA023	
Acrostic Identifier:	
Study ID:	
Date source/workbook completed: ____/____/____	
Holter Data Form - Month 6	
Date procedure started: ____/____/____	Predominant Rhythm: (mutually exclusive) <input type="checkbox"/> Sinus Rhythm <input type="checkbox"/> Junctional Rhythm <input type="checkbox"/> Paced Rhythm <input type="checkbox"/> Ectopic Atrial Rhythm <input type="checkbox"/> Atrial Flutter / Fibrillation
Total recording time: ____:____	
General: Total beats/QRS Complexes: _____ beats Paced beats: _____ beats	Heart Rates: Minimum: _____beats/min. @ ____:____ Average: _____beats/min. Maximum: _____beats/min. @ ____:____
Pauses/Longest RR Interval (> 2 secs): Longest pause was ____ seconds @ ____:____ Total number of pauses: _____	
Ventricular Arrhythmia Summary: Single/PVC: _____ beats Couplets: _____ Total number of NSVT Runs (≥ 3 beats) _____ Number of beats in longest NSVT run _____ Total number of sustained ventricular tachycardia runs (≥ 30 secs) _____	Supraventricular Arrhythmia Summary: Single/PAC: _____ beats Couplets: _____ Total number of SVT Runs _____ Number of beats in longest SVT run _____ Intermittent Atrial Fibrillation / Atrial Flutter: <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, _____ total no. of episodes If yes, ____ . ____ min.secs (duration of longest episode)
AV Block: (Choose all that apply)	
<input type="checkbox"/> Transient AV block, 2nd degree-Mobitz type 1 (Wenkebach) <input type="checkbox"/> N/A ____ total no. of episodes _____ duration of longest episode (secs)	
<input type="checkbox"/> Transient AV block, 2nd degree-Mobitz type 2 <input type="checkbox"/> N/A ____ total no. of episodes _____ duration of longest episode (secs)	
<input type="checkbox"/> Transient AV block, 3rd degree <input type="checkbox"/> N/A ____ total no. of episodes _____ duration of longest episode (secs)	
Comments:	

PI Signature: _____ Date: _____

Entered to eCRF Initials _____

FORM NO. CNA024	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
ECG - Month 6	
Date of Procedure: ____/____/____ Time: ____:____	
PR interval: 0.____ sec QRS interval: 0.____ sec QT interval: 0.____ sec HR: ____ bpm	
<input type="checkbox"/> ECG NORMAL <input type="checkbox"/> ECG NOT NORMAL	
Note: If you select "ECG NORMAL", you are done with this form.	
Rhythm: (Check all that apply)	
<input type="checkbox"/> normal sinus rhythm	<input type="checkbox"/> ventricular demand pacemaker (VVI)
<input type="checkbox"/> sinus arrhythmia	<input type="checkbox"/> atrial pacemaker
<input type="checkbox"/> sinus bradycardia (<60 bpm)	<input type="checkbox"/> dual chamber pacemaker (DDD)
<input type="checkbox"/> sinus tachycardia (>100 bpm)	<input type="checkbox"/> wandering pacemaker
<input type="checkbox"/> atrial fibrillation	<input type="checkbox"/> accelerated idioventricular rhythm
<input type="checkbox"/> atrial flutter	<input type="checkbox"/> atrial premature complexes
<input type="checkbox"/> multifocal atrial tachycardia	<input type="checkbox"/> ventricular premature complexes (PVCs)
<input type="checkbox"/> supraventricular tachycardia	<input type="checkbox"/> ventricular couplets
<input type="checkbox"/> junctional tachycardia	<input type="checkbox"/> junctional rhythm
<input type="checkbox"/> ventricular bigeminy	<input type="checkbox"/> ventricular fibrillation
<input type="checkbox"/> ectopic atrial rhythm	
<input type="checkbox"/> ventricular tachycardia (< 30 seconds) > 120 bpm <i>(must fill in a & b if this box is checked)</i>	
If ventricular tachycardia, please complete:	
a. Length: ____ complexes	b. Average Rate: ____ bpm
If patient is on pacemaker (as indicated above), choose level of pacing:	
<input type="checkbox"/> 100% paced	<input type="checkbox"/> intermittently paced <input type="checkbox"/> N/A <i>(If 100% paced, do not complete rest of form)</i>
AV Conduction Abnormalities: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> AV block, 1st degree	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 1 (Wenkebach)	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 2	
<input type="checkbox"/> AV block, 3rd degree	
Abnormalities of P wave: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left atrial enlargement	<input type="checkbox"/> Right atrial enlargement
Abnormalities of QRS axis: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left axis deviation(> -30°)	<input type="checkbox"/> Right axis deviation (> +100°)
QRS voltage abnormalities: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Low voltage	<input type="checkbox"/> Right ventricular hypertrophy
<input type="checkbox"/> Left ventricular hypertrophy	



FORM NO. CNA024						
Acrostic Identifier:						
Study ID:						
Date source form completed: ____/____/____						
ECG - Month 6						
Intraventricular conduction abnormalities: (Choose all that apply)						<input type="checkbox"/> NONE
<input type="checkbox"/> Right bundle branch block, complete			<input type="checkbox"/> Left bundle branch block, complete			
<input type="checkbox"/> Right bundle branch block, incomplete			<input type="checkbox"/> Left bundle branch block, incomplete			
<input type="checkbox"/> Left anterior fascicular block			<input type="checkbox"/> Nonspecific intraventricular conduction disturbance			
<input type="checkbox"/> Left posterior fascicular block						
For each "Yes" response, check all locations that apply:						
Are Q waves present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment elevation present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment depression present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is T wave inversion present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is there evidence of posterior infarction?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Pathologic wave V ₂ <input type="checkbox"/>	R Abn. ST depression V ₁ , V ₂ <input type="checkbox"/>	Abn. ST elevation V ₁ , V ₂ <input type="checkbox"/>	
Is there evidence of RV infarction (right precordial leads)?	Y <input type="checkbox"/>	N <input type="checkbox"/>	N/A <input type="checkbox"/>			
Are there nonspecific ST and/or T wave abnormalities present?	Y <input type="checkbox"/>	N <input type="checkbox"/>				
Comments:						

PI Signature _____

Date: _____

Entered to eCRF Initials _____



FORM NO.CNA061
Acrostic Identifier:
Study ID:
Date source form completed: ____/____/____
Minnesota Living With Heart Failure Questionnaire - Month 6

MINNESOTA LIVING WITH HEART FAILURE® QUESTIONNAIRE

The following questions ask how much your heart failure (heart condition) affected your life during the past month (4 weeks). After each question, circle the 0, 1, 2, 3, 4 or 5 to show how much your life was affected. If a question does not apply to you, circle the 0 after that question.

Did your heart failure prevent you from living as you wanted during the past month (4 weeks) by -

	No	Very Little				Very Much
1. causing swelling in your ankles or legs?	0	1	2	3	4	5
2. making you sit or lie down to rest during the day?	0	1	2	3	4	5
3. making your walking about or climbing stairs difficult?	0	1	2	3	4	5
4. making your working around the house or yard difficult?	0	1	2	3	4	5
5. making your going places away from home difficult?	0	1	2	3	4	5
6. making your sleeping well at night difficult?	0	1	2	3	4	5
7. making your relating to or doing things with your friends or family difficult?	0	1	2	3	4	5
8. making your working to earn a living difficult?	0	1	2	3	4	5
9. making your recreational pastimes, sports or hobbies difficult?	0	1	2	3	4	5
10. making your sexual activities difficult?	0	1	2	3	4	5
11. making you eat less of the foods you like?	0	1	2	3	4	5
12. making you short of breath?	0	1	2	3	4	5
13. making you tired, fatigued, or low on energy?	0	1	2	3	4	5
14. making you stay in a hospital?	0	1	2	3	4	5
15. costing you money for medical care?	0	1	2	3	4	5
16. giving you side effects from treatments?	0	1	2	3	4	5
17. making you feel you are a burden to your family or friends?	0	1	2	3	4	5
18. making you feel a loss of self-control in your life?	0	1	2	3	4	5
19. making you worry?	0	1	2	3	4	5
20. making it difficult for you to concentrate or remember things?	0	1	2	3	4	5
21. making you feel depressed?	0	1	2	3	4	5

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Comments:

Entered to eCRF

Initials _____



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 6

This survey asks for your views about your health. This information will help keep track of how you feel and how well you are able to do your usual activities. Thank you for completing this survey!

For each of the following questions, please mark an in the one box that best describes your answer.

1. In general, would you say your health is:

Excellent	Very good	Good	Fair	Poor
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Compared to one year ago, how would you rate your health in general now?

Much better now than one year ago	Somewhat better now than one year ago	About the same as one year ago	Somewhat worse now than one year ago	Much worse now than one year ago
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 6

3. The following items are about activities you might do during a typical day. Does your health now limit you in these activities? If so, how much?

Yes, limited a lot	Yes, limited a little	No, not limited at all
▼	▼	▼

- a Vigorous activities, such as running, lifting heavy objects, participating in strenuous sports ₁ ₂ ₃
- b Moderate activities, such as moving a table, pushing a vacuum cleaner, bowling, or playing golf ₁ ₂ ₃
- c Lifting or carrying groceries ₁ ₂ ₃
- d Climbing several flights of stairs ₁ ₂ ₃
- e Climbing one flight of stairs ₁ ₂ ₃
- f Bending, kneeling, or stooping ₁ ₂ ₃
- g Walking more than a mile ₁ ₂ ₃
- h Walking several blocks ₁ ₂ ₃
- i Walking one block ₁ ₂ ₃
- j Bathing or dressing yourself ₁ ₂ ₃



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 6

4. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of your physical health?

Yes	No
▼	▼

- a Cut down on the amount of time you spent on work or other activities..... ₁..... ₂
- b Accomplished less than you would like ₁..... ₂
- c Were limited in the kind of work or other activities ₁..... ₂
- d Had difficulty performing the work or other activities (for example, it took extra effort) ₁..... ₂

5. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of any emotional problems (such as feeling depressed or anxious)?

Yes	No
▼	▼

- a Cut down on the amount of time you spent on work or other activities..... ₁..... ₂
- b Accomplished less than you would like ₁..... ₂
- c Did work or other activities less carefully than usual..... ₁..... ₂



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 6

6. During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities with family, friends, neighbors, or groups?

Not at all



₁

Slightly



₂

Moderately



₃

Quite a bit



₄

Extremely



₅

7. How much bodily pain have you had during the past 4 weeks?

None



₁

Very mild



₂

Mild



₃

Moderate



₄

Severe



₅

Very Severe



₆

8. During the past 4 weeks, how much did pain interfere with your normal work (including both work outside the home and housework)?

Not at all



₁

A little bit



₂

Moderately



₃

Quite a bit



₄

Extremely



₅



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 6

9. These questions are about how you feel and how things have been with you during the past 4 weeks. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the past 4 weeks...

All of the time	Most of the time	A good bit of the time	Some of the time	A little of the time	None of the time
▼	▼	▼	▼	▼	▼

- a Did you feel full of pep?..... 1..... 2..... 3..... 4..... 5..... 6
- b Have you been a very nervous person?..... 1..... 2..... 3..... 4..... 5..... 6
- c Have you felt so down in the dumps that nothing could cheer you up? 1..... 2..... 3..... 4..... 5..... 6
- d Have you felt calm and peaceful?..... 1..... 2..... 3..... 4..... 5..... 6
- e Did you have a lot of energy? 1..... 2..... 3..... 4..... 5..... 6
- f Have you felt downhearted and blue?..... 1..... 2..... 3..... 4..... 5..... 6
- g Did you feel worn out? 1..... 2..... 3..... 4..... 5..... 6
- h Have you been a happy person?..... 1..... 2..... 3..... 4..... 5..... 6
- i Did you feel tired?..... 1..... 2..... 3..... 4..... 5..... 6



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 6

10. During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities (like visiting friends, relatives, etc.)?

All of the time	Most of the time	Some of the time	A little of the time	None of the time
▼	▼	▼	▼	▼
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

11. How TRUE or FALSE is each of the following statements for you?

	Definitely true	Mostly true	Don't know	Mostly false	Definitely false
	▼	▼	▼	▼	▼
a I seem to get sick a little easier than other people.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
b I am as healthy as anybody I know	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
c I expect my health to get worse	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
d My health is excellent.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

Comments:

Entered to eCRF

Initials _____



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA005

Acrostic Identifier: _____

Study ID: _____

Date source form completed: ____/____/____

Physical Exam - Month 12

Date of Exam: ____/____/____ Visit is outside time window Reason: _____

Informed consent was revised since study start date

Date patient reconsented: ____/____/____ Consent version: _____

Vital Signs		NYHA Class:	CCS Class:
Weight: _____ pounds		<input type="checkbox"/> I	<input type="checkbox"/> I
Temperature: _____ °F <input type="checkbox"/> oral <input type="checkbox"/> auricle		<input type="checkbox"/> II	<input type="checkbox"/> II
Respirations: _____ breaths/minute		<input type="checkbox"/> III	<input type="checkbox"/> III
Heart rate: _____ beats/minute		<input type="checkbox"/> IV	<input type="checkbox"/> IV
Blood Pressure: _____ / _____ mmHg (supine) SBP DBP		<input type="checkbox"/> N/A	<input type="checkbox"/> N/A

Review of Systems:

Have changes occurred since previous visit? Yes No If no, table is complete.

<u>Organs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Not Examined</u>	<u>Describe</u>
Skin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HEENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lungs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Abdomen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lymph Nodes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Musculoskeletal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Neurological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Questions

Has the patient experienced a new adverse event since the last follow-up visit? (If yes, complete AE form) Yes No

Have there been any significant changes in physical findings since the last follow-up visit? (If yes, please explain in comments) Yes No

Have there been any changes to medications since the last follow-up visit? (If yes, update medication form) Yes No



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA005	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
Physical Exam - Month 12	
Questions	
Was the NIH Stroke Scale assessment completed? (If not done, or if result is evidence of deficit, please explain in comments)	Yes <input type="checkbox"/> No <input type="checkbox"/> No evidence of deficit <input type="checkbox"/> Evidence of deficit <input type="checkbox"/>
Has the patient completed the Quality of Life Questionnaires? (If no, please explain in Comments)	Yes <input type="checkbox"/> No <input type="checkbox"/>
Has there been a change in nitrate usage since the last follow-up visit? (If yes, please update medication form)	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
*Please remember to update medication form with inter-visit changes to medications	
Comments:	

PI Signature _____

Date: _____

Entered to eCRF

Initials _____



FORM NO. CNA024	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
ECG - Month 12	
Date of Procedure: ____/____/____ Time: ____:____	
PR interval: 0.____ sec QRS interval: 0.____ sec QT interval: 0.____ sec HR: ____ bpm	
<input type="checkbox"/> ECG NORMAL <input type="checkbox"/> ECG NOT NORMAL	
Note: If you select "ECG NORMAL", you are done with this form.	
Rhythm: (Check all that apply)	
<input type="checkbox"/> normal sinus rhythm	<input type="checkbox"/> ventricular demand pacemaker (VVI)
<input type="checkbox"/> sinus arrhythmia	<input type="checkbox"/> atrial pacemaker
<input type="checkbox"/> sinus bradycardia (<60 bpm)	<input type="checkbox"/> dual chamber pacemaker (DDD)
<input type="checkbox"/> sinus tachycardia (>100 bpm)	<input type="checkbox"/> wandering pacemaker
<input type="checkbox"/> atrial fibrillation	<input type="checkbox"/> accelerated idioventricular rhythm
<input type="checkbox"/> atrial flutter	<input type="checkbox"/> atrial premature complexes
<input type="checkbox"/> multifocal atrial tachycardia	<input type="checkbox"/> ventricular premature complexes (PVCs)
<input type="checkbox"/> supraventricular tachycardia	<input type="checkbox"/> ventricular couplets
<input type="checkbox"/> junctional tachycardia	<input type="checkbox"/> junctional rhythm
<input type="checkbox"/> ventricular bigeminy	<input type="checkbox"/> ventricular fibrillation
<input type="checkbox"/> ectopic atrial rhythm	
<input type="checkbox"/> ventricular tachycardia (< 30 seconds) > 120 bpm <i>(must fill in a & b if this box is checked)</i>	
If ventricular tachycardia, please complete:	
a. Length: ____ complexes	b. Average Rate: ____ bpm
If patient is on pacemaker (as indicated above), choose level of pacing:	
<input type="checkbox"/> 100% paced	<input type="checkbox"/> intermittently paced <input type="checkbox"/> N/A <i>(If 100% paced, do not complete rest of form)</i>
AV Conduction Abnormalities: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> AV block, 1st degree	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 1 (Wenkebach)	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 2	
<input type="checkbox"/> AV block, 3rd degree	
Abnormalities of P wave: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left atrial enlargement	<input type="checkbox"/> Right atrial enlargement
Abnormalities of QRS axis: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left axis deviation(> -30°)	<input type="checkbox"/> Right axis deviation (> +100°)
QRS voltage abnormalities: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Low voltage	<input type="checkbox"/> Right ventricular hypertrophy
<input type="checkbox"/> Left ventricular hypertrophy	



FORM NO. CNA024						
Acrostic Identifier:						
Study ID:						
Date source form completed: ____/____/____						
ECG - Month 12						
Intraventricular conduction abnormalities: (Choose all that apply)						<input type="checkbox"/> NONE
<input type="checkbox"/> Right bundle branch block, complete			<input type="checkbox"/> Left bundle branch block, complete			
<input type="checkbox"/> Right bundle branch block, incomplete			<input type="checkbox"/> Left bundle branch block, incomplete			
<input type="checkbox"/> Left anterior fascicular block			<input type="checkbox"/> Nonspecific intraventricular conduction disturbance			
<input type="checkbox"/> Left posterior fascicular block						
For each "Yes" response, check all locations that apply:						
Are Q waves present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment elevation present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment depression present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is T wave inversion present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is there evidence of posterior infarction?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Pathologic wave V ₂ <input type="checkbox"/>	R Abn. ST depression V ₁ , V ₂ <input type="checkbox"/>	Abn. ST elevation V ₁ , V ₂ <input type="checkbox"/>	
Is there evidence of RV infarction (right precordial leads)?	Y <input type="checkbox"/>	N <input type="checkbox"/>	N/A <input type="checkbox"/>			
Are there nonspecific ST and/or T wave abnormalities present?	Y <input type="checkbox"/>	N <input type="checkbox"/>				
Comments:						

PI Signature _____

Date: _____

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA022			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Month 12			
Date and time specimen obtained: Date: ____/____/____ Time: ____:____			
Test	Result	Unit	Normal Range
BNP		pg/ml	0-100 pg/ml
Pregnancy Test (women of childbearing potential) <input type="checkbox"/> Not applicable			Negative (urine) < 5.0 mU/ml (quantitative blood)
Comments:			

PI Signature _____

Date: _____

Entered to eCRF

Initials _____



FORM NO.CNA061

Acrostic Identifier:

Study ID:

Date source form completed: ___/___/___

Minnesota Living With Heart Failure Questionnaire - Month 12

MINNESOTA LIVING WITH HEART FAILURE® QUESTIONNAIRE

The following questions ask how much your heart failure (heart condition) affected your life during the past month (4 weeks). After each question, circle the 0, 1, 2, 3, 4 or 5 to show how much your life was affected. If a question does not apply to you, circle the 0 after that question.

Did your heart failure prevent you from living as you wanted during the past month (4 weeks) by -

Table with 7 columns: Question, No, Very Little, Little, Moderate, Very Much, Very Much. 21 rows of questions.

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Comments:

Entered to eCRF

Initials _____



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 12

This survey asks for your views about your health. This information will help keep track of how you feel and how well you are able to do your usual activities. *Thank you for completing this survey!*

For each of the following questions, please mark an in the one box that best describes your answer.

1. In general, would you say your health is:

Excellent	Very good	Good	Fair	Poor
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

2. Compared to one year ago, how would you rate your health in general now?

Much better now than one year ago	Somewhat better now than one year ago	About the same as one year ago	Somewhat worse now than one year ago	Much worse now than one year ago
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 12

3. The following items are about activities you might do during a typical day. Does your health now limit you in these activities? If so, how much?

Yes, limited a lot	Yes, limited a little	No, not limited at all
▼	▼	▼

- a Vigorous activities, such as running, lifting heavy objects, participating in strenuous sports ₁ ₂ ₃
- b Moderate activities, such as moving a table, pushing a vacuum cleaner, bowling, or playing golf ₁ ₂ ₃
- c Lifting or carrying groceries ₁ ₂ ₃
- d Climbing several flights of stairs ₁ ₂ ₃
- e Climbing one flight of stairs ₁ ₂ ₃
- f Bending, kneeling, or stooping ₁ ₂ ₃
- g Walking more than a mile ₁ ₂ ₃
- h Walking several blocks ₁ ₂ ₃
- i Walking one block ₁ ₂ ₃
- j Bathing or dressing yourself ₁ ₂ ₃



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 12

4. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of your physical health?

Yes	No
▼	▼

- a Cut down on the amount of time you spent on work or other activities..... ₁..... ₂
- b Accomplished less than you would like ₁..... ₂
- c Were limited in the kind of work or other activities ₁..... ₂
- d Had difficulty performing the work or other activities (for example, it took extra effort) ₁..... ₂

5. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of any emotional problems (such as feeling depressed or anxious)?

Yes	No
▼	▼

- a Cut down on the amount of time you spent on work or other activities..... ₁..... ₂
- b Accomplished less than you would like ₁..... ₂
- c Did work or other activities less carefully than usual..... ₁..... ₂



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 12

6. During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities with family, friends, neighbors, or groups?

Not at all



₁

Slightly



₂

Moderately



₃

Quite a bit



₄

Extremely



₅

7. How much bodily pain have you had during the past 4 weeks?

None



₁

Very mild



₂

Mild



₃

Moderate



₄

Severe



₅

Very Severe



₆

8. During the past 4 weeks, how much did pain interfere with your normal work (including both work outside the home and housework)?

Not at all



₁

A little bit



₂

Moderately



₃

Quite a bit



₄

Extremely



₅



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 12

9. These questions are about how you feel and how things have been with you during the past 4 weeks. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the past 4 weeks...

All of the time	Most of the time	A good bit of the time	Some of the time	A little of the time	None of the time
▼	▼	▼	▼	▼	▼

- a Did you feel full of pep?..... 1..... 2..... 3..... 4..... 5..... 6
- b Have you been a very nervous person?..... 1..... 2..... 3..... 4..... 5..... 6
- c Have you felt so down in the dumps that nothing could cheer you up? 1..... 2..... 3..... 4..... 5..... 6
- d Have you felt calm and peaceful?..... 1..... 2..... 3..... 4..... 5..... 6
- e Did you have a lot of energy? 1..... 2..... 3..... 4..... 5..... 6
- f Have you felt downhearted and blue?..... 1..... 2..... 3..... 4..... 5..... 6
- g Did you feel worn out? 1..... 2..... 3..... 4..... 5..... 6
- h Have you been a happy person?..... 1..... 2..... 3..... 4..... 5..... 6
- i Did you feel tired?..... 1..... 2..... 3..... 4..... 5..... 6



FORM NO.CNA062

Acrostic Identifier:

Study ID:

Date form completed: ____/____/____

SF-36 - Month 12

10. During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities (like visiting friends, relatives, etc.)?

All of the time	Most of the time	Some of the time	A little of the time	None of the time
▼	▼	▼	▼	▼
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

11. How TRUE or FALSE is each of the following statements for you?

	Definitely true	Mostly true	Don't know	Mostly false	Definitely false
	▼	▼	▼	▼	▼
a I seem to get sick a little easier than other people.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
b I am as healthy as anybody I know	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
c I expect my health to get worse	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
d My health is excellent.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

Comments:

Entered to eCRF

Initials _____



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA005

Acrostic Identifier: _____

Study ID: _____

Date source form completed: ____/____/____

Physical Exam - Interim

Date of Exam: ____/____/____ Visit is outside time window Reason: _____

Informed consent was revised since study start date

Date patient reconsented: ____/____/____ Consent version: _____

Vital Signs		NYHA Class:	CCS Class:
Weight: _____ pounds		<input type="checkbox"/> I	<input type="checkbox"/> I
Temperature: _____ °F <input type="checkbox"/> oral <input type="checkbox"/> auricle		<input type="checkbox"/> II	<input type="checkbox"/> II
Respirations: ____ breaths/minute		<input type="checkbox"/> III	<input type="checkbox"/> III
Heart rate: ____ beats/minute		<input type="checkbox"/> IV	<input type="checkbox"/> IV
Blood Pressure: _____ / _____ mmHg (supine) SBP DBP		<input type="checkbox"/> N/A	<input type="checkbox"/> N/A
		LVEF: ____ % (by Echo) Date: ____/____/____	

Review of Systems:

Have changes occurred since previous visit? Yes No If no, table is complete.

<u>Organs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Not Examined</u>	<u>Describe</u>
Skin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HEENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lungs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Abdomen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lymph Nodes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Musculoskeletal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Neurological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



Cardiovascular Cell Therapy Research Network
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FORM NO. CNA005	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
Physical Exam - Interim	
Questions	
Has the patient experienced a new adverse event since the last follow-up visit? (If yes, complete AE form)	Yes <input type="checkbox"/> No <input type="checkbox"/>
Have there been any significant changes in physical findings since the last follow-up visit? (If yes, please explain in comments)	Yes <input type="checkbox"/> No <input type="checkbox"/>
Have there been any changes to medications since the last follow-up visit? (If yes, update medication form)	Yes <input type="checkbox"/> No <input type="checkbox"/>
Was the NIH Stroke Scale assessment completed? (If not done, or if result is evidence of deficit, please explain in comments)	Yes <input type="checkbox"/> No <input type="checkbox"/> No evidence of deficit <input type="checkbox"/> Evidence of deficit <input type="checkbox"/>
Has there been a change in nitrate usage since the last follow-up visit? (If yes, please update medication form)	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
*Please remember to update medication form with inter-visit changes to medications	
Comments:	

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA026			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Interim			
Date and time specimen obtained: Date: ____/____/____ Time: ____:____			
CBC with Differential	Result	Unit	Normal Range
WBC		K/mm ³	4.0-11.0 K/mm ³
RBC		M/mm ³	4.0-6.0 M/mm ³
Hgb		gm/dL	12.0-17.5 gm/dL
Hct		%	33-53%
MCV		fL	78-100 fL
Platelets		K/mm ³	135-450 K/mm ³
WBC Differential			
Neutrophils		%	36-74%
Lymphocytes		%	12-45%
Monocytes		%	0-13%
Eosinophils		%	0-8%
Basophils		%	< 3.0%
Cardiac Markers (Either Troponin T or Troponin I should be completed, NOT both)			
Troponin T		ng/ml	0.0-10 ng/ml
Troponin I		ng/ml	0.0-100 ng/ml
CK		U/L	25-10,000 U/L
CK-MB		ng/ml	0.0-250 ng/ml
Chem-8			
Na+		mmol/L	132-148 mmol/L
K+		mmol/L	3.3-5.5 mmol/L
Chloride		mmol/L	95-110 mmol/L
CO ₂		mmol/L	22-32 mmol/L
Glucose		mg/dL	65-110 mg/dL
BUN		mg/dL	5-26 mg/dL
Creatinine		mg/dL	0.4-1.5 mg/dL
Calcium		mg/dL	8.0-10.6 mg/dL



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FORM NO. CNA026			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Interim			
Liver Function Tests			
Bilirubin-Total		mg/dL	0.0-1.5 mg/dL
Bilirubin-Direct		mg/dL	0.0-0.4 mg/dL
Total Protein		g/dL	6.0-8.5 g/dL
Alk Phos		U/L	30-150 U/L
ALT		U/L	0-50 U/L
AST		U/L	0-42 U/L
Other Tests			
BNP		pg/ml	0-100 pg/ml
hsCRP		mg/L	0.0-40 mg/L
PTT		seconds	21-39 secs
PT/INR		seconds	< 1.2 secs
Pregnancy Test (women of childbearing potential)			Negative (urine)
<input type="checkbox"/> Not applicable			< 5.0 mU/ml (quantitative blood)
Comments:			

PI Signature _____

Date: _____

Entered to eCRF

Initials _____



FORM NO. CNA041												
Acrostic Identifier:												
Study ID:												
Adverse Event Log												
Date of this Report: ____/____/____												
Outcome Status	Serious	Expectedness	Severity	Relationship to Study / Study Product:	Outcome Attributed to AE					Study Status		
1=Resolved (must have an end date) 2=Ongoing 3=Resulted in SAE (must complete SAE form)	1=Not Serious 2=Serious (must complete SAE form)	1=Expected (refer to IB) 2=Unexpected	1=Mild 2=Moderate 3=Severe 4=Life threatening or permanently disabling 5=Fatal	1=Definite 2=Probable 3=Possible 4=Unlikely 5=Unrelated	1=Resolved, no treatment, no sequelae 2=Resolved, no treatment, with sequelae 3=Resolved with treatment, no sequelae 4=Resolved with treatment and sequelae 5=Still present, no treatment 6=Still present, being treated					1=Continuing in Study 2=Withdrawn		
Description of Event (Diagnosis)		Organ System Classification: 1=HEENT, 2=cardiovascular, 3=abdomen, 4=lungs, 5=renal, 6=neurological, 7=musculoskeletal, 8=skin, 9=lymph nodes, 10=hematological, 11=Other	Start Date (____ / ____ / ____)	End Date (____ / ____ / ____)	Outcome Status	Serious	Expectedness	Severity	Relationship to Study/Study Product	Outcome Attributed to AE	Study Status	Narrative added* (progress note)
1.												<input type="checkbox"/>
2.												<input type="checkbox"/>
3.												<input type="checkbox"/>
4.												<input type="checkbox"/>
5.												<input type="checkbox"/>

* Narrative should include the following: detailed description of event, problem, and/or product use error, and relevant tests/laboratory data, including dates

PI Signature _____ Date: _____

RNC Signature _____ Date: _____

Entered to eCRF Initials _____



FORM NO. CNA042

Acrostic Identifier:

Study ID:

Serious Adverse Event Log

Date of this Report: ____/____/____

Outcome Status	Expectedness	Severity	Relationship to Study / Study Product:	Outcome Attributed to SAE	Study Status
1=Resolved (must have an end date) 2=Ongoing	1=Expected (refer to IB) 2=Unexpected (may need to fill out Unanticipated Problem (UP) form)	1=Mild 2=Moderate 3=Severe 4=Life threatening or permanently disabling 5=Fatal	1=Definite 2=Probable 3=Possible 4=Unlikely 5=Unrelated	1=Death: ____/____/____ 2=Life Threatening 3=Requires or Prolongs Inpatient Hospitalization 4=Persistent or Significant Disability or Incapacity 5=Congenital Anomaly/Birth Defect 6=Other Serious (Important Medical Events)	1=Continuing in Study 2=Withdrawn

Description of Event (Diagnosis)	Organ System Classification: 1=HEENT, 2=cardiovascular, 3=abdomen, 4=lungs, 5=renal, 6=neurological, 7=musculoskeletal, 8=skin, 9=lymph nodes, 10=hematological, 11= Other	Start Date (____/____/____)	End Date (____/____/____)	Outcome Status	Expectedness	Severity	Relationship to Study/Study Product	Outcome Attributed to SAE	Study Status	Narrative added* (progress note)
1.										<input type="checkbox"/>
2.										<input type="checkbox"/>
3.										<input type="checkbox"/>
4.										<input type="checkbox"/>
5.										<input type="checkbox"/>

* Narrative should include the following: detailed description of event, problem, and/or product use error, and relevant tests/laboratory data, including dates

PI Signature _____ Date: _____

RNC Signature _____ Date: _____

Entered to eCRF Initials _____



FORM NO. CNA043

Is this unanticipated problem specific to an individual subject ? Yes No

Acrostic Identifier: (fill in if answer to above is "Yes")

Study ID: (fill in if answer to above is "Yes")

Site: (fill in if answer to above is "No")

(Note: If the UP does not apply to an individual subject, the Acrostic Identifier and Study ID remain blank)

Date form completed: ____/____/____

Unanticipated Problem (UP) Report

Definition of an UP: Any problem or event which in the opinion of the local researcher was unanticipated, serious and at least possibly related to the research procedures.

These should be reported to the IRB within 10 working days.

Date of the Event: ____/____/____

Date the site study team had knowledge of the Event: ____/____/____

This Event meets the criteria for an unanticipated problem because:

<input type="checkbox"/>	1	Unanticipated: The event is unexpected in terms of nature, severity or frequency given the research procedures described in the protocol, consent, etc. or given the characteristics of the population being studied.
<input type="checkbox"/>	2	Related: The event is related or possibly related to participation in the research. There is a reasonable possibility that the incident, experience, event, or outcome may have been caused by the procedures involved in research.
<input type="checkbox"/>	3	Serious: The event placed subjects or others at greater risk (including physical, psychological, economic, or social harm) that was previously known or recognized or resulted in harm to the subject or others.

Note: The event must meet all of the above criteria to be considered an unanticipated problem.

Describe the type of event:

- Accidental or unintentional change to the IRB-approved protocol that resulted in risk or has the potential to recur.
- Publication in the literature, safety monitoring report, or other findings indicating an unexpected change to the risks or potential benefits of the research.
- Complaint of a participant that indicates an unanticipated risk or which cannot be resolved by the research staff.
- A breach in confidentiality that may involve risk to that individual or others (e.g. compromised/stolen computer).
- Incarceration of a member of the research staff.
- Any other event that, in the opinion of the PI, constitutes an unanticipated risk.

Description of the unanticipated problem:

Provide a plan to prevent the problem from reoccurring in the future (indicate if protocol or consent modifications are required due to the event):

Entered to eCRF Initials _____



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FORM NO.CNA044		
Acrostic Identifier:		
Study ID:		
Date form completed: ____/____/____		
Protocol Deviation/Violation Report		
Date of the Event: ____/____/____ <input type="checkbox"/> Event has not yet occurred (exemption request)		
Date the site study team had knowledge of the Event: ____/____/____		
This Event meets the criteria for a protocol deviation/violation because:		
<input type="checkbox"/>	1	The event resulted in an accidental or unintentional change to the IRB approved protocol and procedures without prior sponsor approval.
<input type="checkbox"/>	2	The event affected the participant's rights, safety, or welfare, or the integrity of the resultant data.
Note: The event <u>must meet at least one</u> of the above criteria to be considered a protocol deviation/violation.		
Describe the protocol deviation/violation:		
Explain why or how the deviation/violation occurred:		
Indicate the outcome (PI's assessment of the outcome, comments, or determinations):		
Describe what action you have taken to prevent recurrence:		

PI Signature _____ Date: _____



Cardiovascular Cell Therapy Research Network
 FOCUS Protocol Workbook

RNC Signature _____ Date: _____

Entered to eCRF Initials _____

CCTR Exemption/Waiver Documentation (DCC only)	
CCTR Medical Officer or Designee Review:	
Action Taken:	<input type="checkbox"/> Granted <input type="checkbox"/> Not Granted
Waiver Acknowledgement:	<input type="checkbox"/> Received / Acknowledged

DCC Signature _____ Date: _____



FORM NO. CNA048

Acrostic Identifier: _____

Study ID: _____

Missing Form

Form Missing:		Reason/Comment:	Date of this Report:
<input type="checkbox"/>	Baseline Risk Factors & Other Cardiac Hx		
<input type="checkbox"/>	Baseline Non Cardio. Med. Hx		
<input type="checkbox"/>	Baseline - Physical Exam		
<input type="checkbox"/>	Baseline - ECG		
<input type="checkbox"/>	Baseline - Labs		
<input type="checkbox"/>	Baseline - Qual. of Life MLHF		
<input type="checkbox"/>	Baseline - Qual. of Life SF-36		
<input type="checkbox"/>	Baseline - 6 minute walk test		
<input type="checkbox"/>	Baseline - Holter		
<input type="checkbox"/>	Medication allergies		
<input type="checkbox"/>	Medication list		
<input type="checkbox"/>	Bone Marrow Aspiration		
<input type="checkbox"/>	Study Product Injection		
<input type="checkbox"/>	Day of Injection - Phys. Exam		
<input type="checkbox"/>	Day of Injection - ECG		
<input type="checkbox"/>	Day of Injection - Holter		
<input type="checkbox"/>	Day after Injection - Phys. Exam		
<input type="checkbox"/>	Day after Injection - ECG		
<input type="checkbox"/>	Day after Injection - Labs		
<input type="checkbox"/>	Wk 1 - Physical Exam		
<input type="checkbox"/>	Wk 1 - ECG		
<input type="checkbox"/>	Wk 1 - Holter		
<input type="checkbox"/>	Wk 1 - Labs		
<input type="checkbox"/>	Wk 4 - Physical Exam		
<input type="checkbox"/>	Wk 4 - Labs		
<input type="checkbox"/>	Wk 4 - ECG		
<input type="checkbox"/>	Wk 4 - Holter		
<input type="checkbox"/>	Mo 3 - Physical Exam		



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FORM NO. CNA048		
Acrostic Identifier:		
Study ID:		
Missing Form		
	Form Missing:	Reason/Comment:
<input type="checkbox"/>	Mo 3 - Labs	
<input type="checkbox"/>	Mo 3 - Holter	
<input type="checkbox"/>	Mo 3 - ECG	
<input type="checkbox"/>	Mo 3 - Qual. of Life MLHF	
<input type="checkbox"/>	Mo 3 - Qual. of Life SF-36	
<input type="checkbox"/>	Mo 6 - Physical Exam	
<input type="checkbox"/>	Mo 6 - Labs	
<input type="checkbox"/>	Mo 6 - ECG	
<input type="checkbox"/>	Mo 6 - Holter	
<input type="checkbox"/>	Mo 6 - 6 minute walk test	
<input type="checkbox"/>	Mo 6 - Qual. of Life MLHF	
<input type="checkbox"/>	Mo 6 - Qual. of Life SF-36	
<input type="checkbox"/>	Mo 12 - Physical Exam	
<input type="checkbox"/>	Mo 12 - Labs	
<input type="checkbox"/>	Mo 12 - ECG	
<input type="checkbox"/>	Mo 12 - Qual. of Life MLHF	
<input type="checkbox"/>	Mo 12 - Qual. of Life SF-36	
<input type="checkbox"/>	Mo 24 - F/U Phone Contact	
<input type="checkbox"/>	Mo 36 - F/U Phone Contact	
<input type="checkbox"/>	Mo 48 - F/U Phone Contact	
<input type="checkbox"/>	Mo 60 - F/U Phone Contact	
<input type="checkbox"/>	End of Study	
	Date of this Report:	



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA051	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
End of Study	
Date of final follow-up study visit: ____/____/____	
Reason for discharge from the study:	
<input type="checkbox"/> Completed study	Date: ____/____/____
<input type="checkbox"/> Withdrawn	Date: ____/____/____
<input type="checkbox"/> Lost to follow-up	Date: ____/____/____
<input type="checkbox"/> Screen Failure	Date: ____/____/____
If "Withdrawn", please check the primary reason for withdrawal:	
<i>Reasons that require follow-up:</i>	
<input type="checkbox"/> Serious Adverse Event (until resolved)	Event Number: _____
<input type="checkbox"/> Pregnancy (1 year post birth)	Event Number: _____
<input type="checkbox"/> Other	Describe: _____
<i>Reasons that DO NOT require follow-up:</i>	
<input type="checkbox"/> Death	Event Number: _____
<input type="checkbox"/> Adverse Event	Event Number: _____
<input type="checkbox"/> Withdrawal of consent	
<input type="checkbox"/> Protocol Deviation/Violation	
<input type="checkbox"/> Investigator Discretion	Describe: _____
<input type="checkbox"/> Sponsor Discretion	Describe: _____
<input type="checkbox"/> Other	Describe: _____
Please verify the following tasks are complete:	
<input type="checkbox"/>	All Informed Consents forms are properly signed/dated and available
<input type="checkbox"/>	Hard copy workbooks are signed, dated and present in the CCTRN source document patient binder; workbooks may be grouped by a visit with one signature per visit.
<input type="checkbox"/>	All source document data have been entered into the electronic CRF database
<input type="checkbox"/>	All electronic CRFs have been submitted to the DCC
<input type="checkbox"/>	I have reviewed all case report forms for this patient and found them to be in complete agreement with the source documents.
<input type="checkbox"/>	If any questions arise from the DCC data review (due to missing, unclear, or incorrect entries), the authorized staff will supply appropriate corrections.

PI Signature _____

Date: _____

Entered to eCRF

Initials _____



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA005

Acrostic Identifier: _____

Study ID: _____

Date source form completed: ____/____/____

Physical Exam - Week 1

Date of Exam: ____/____/____ Visit is outside time window Reason: _____

Informed consent was revised since study start date

Date patient reconsented: ____/____/____ Consent version: _____

Vital Signs		NYHA Class:	CCS Class:
Weight: _____ pounds		<input type="checkbox"/> I	<input type="checkbox"/> I
Temperature: _____ °F <input type="checkbox"/> oral <input type="checkbox"/> auricle		<input type="checkbox"/> II	<input type="checkbox"/> II
Respirations: ____ breaths/minute		<input type="checkbox"/> III	<input type="checkbox"/> III
Heart rate: ____ beats/minute		<input type="checkbox"/> IV	<input type="checkbox"/> IV
Blood Pressure: _____ / _____ mmHg (supine) SBP DBP		<input type="checkbox"/> N/A	<input type="checkbox"/> N/A

Review of Systems:

Have changes occurred since previous visit? Yes No If no, table is complete.

<u>Organs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Not Examined</u>	<u>Describe</u>
Skin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HEENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lungs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Abdomen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lymph Nodes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Musculoskeletal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Neurological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Questions

Has the patient experienced a new adverse event since last visit? Yes No
(If yes, complete AE form)

Have there been any significant changes in physical findings since last visit? (If yes, please explain in comments) Yes No

Have there been any changes to medications since last visit? (If yes, update medication form) Yes No

Was the NIH Stroke Scale assessment completed? (If not done, or if result is evidence of deficit, please explain in comments) Yes No No evidence of deficit
Evidence of deficit



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA005

Acrostic Identifier: _____

Study ID: _____

Date source form completed: ____/____/____

Physical Exam - Week 1

Questions

Was a routine no contrast Echo completed? (If not done, or if result abnormal, please explain in comments) Yes No Normal
Abnormal

Has there been a change in nitrate usage since last visit? (If yes, please update medication form) Yes No N/A

***Please remember to update medication form with inter-visit changes to medications**

Comments: _____

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA021			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Week 1			
Date and time specimen obtained: Date: ____/____/____ Time: ____:____			
CBC with Differential	Result	Unit	Normal Range
WBC		K/mm ³	4.0-11.0 K/mm ³
RBC		M/mm ³	4.0-6.0 M/mm ³
Hgb		gm/dL	12.0-17.5 gm/dL
Hct		%	33-53%
MCV		fL	78-100 fL
Platelets		K/mm ³	135-450 K/mm ³
WBC Differential			
Neutrophils		%	36-74%
Lymphocytes		%	12-45%
Monocytes		%	0-13%
Eosinophils		%	0-8%
Basophils		%	< 3.0%
Cardiac Markers (Either Troponin T or Troponin I should be completed, NOT both)			
Troponin T		ng/ml	0.0-10 ng/ml
Troponin I		ng/ml	0.0-100 ng/ml
CK		U/L	25-10,000 U/L
CK-MB		ng/ml	0.0-250 ng/ml
Chem-8			
BUN		mg/dL	5-26 mg/dL
Creatinine		mg/dL	0.4-1.5 mg/dL
Liver Function Tests			
Bilirubin-Total		mg/dL	0.0-1.5 mg/dL
Bilirubin-Direct		mg/dL	0.0-0.4 mg/dL
Total Protein		g/dL	6.0-8.5 g/dL
Alk Phos		U/L	30-150 U/L
ALT		U/L	0-50 U/L
AST		U/L	0-42 U/L



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA021			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Week 1			
Other Tests			
BNP		pg/ml	0-100 pg/ml
hsCRP		mg/L	0.0-40 mg/L
Comments:			

PI Signature _____

Date: _____

Entered to eCRF

Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA023

Acrostic Identifier:

Study ID:

Date source/workbook completed: ___/___/___

Holter Data Form - Week 1

Date procedure started: ___/___/___

Total recording time: ___:___

General:

Total beats/QRS Complexes: _____ beats

Paced beats: _____ beats

Pauses/Longest RR Interval (> 2 secs):

Longest pause was ___ seconds @ ___:___

Total number of pauses: _____

Ventricular Arrhythmia Summary:

Single/PVC: _____ beats

Couplets: _____

Total number of NSVT Runs (≥ 3 beats) _____

Number of beats in longest NSVT run _____

Total number of sustained ventricular tachycardia runs (≥ 30 secs) _____

Predominant Rhythm: (mutually exclusive)

Sinus Rhythm Junctional Rhythm

Paced Rhythm Ectopic Atrial Rhythm

Atrial Flutter / Fibrillation

Heart Rates:

Minimum: _____beats/min. @ ___:___

Average: _____beats/min.

Maximum: _____beats/min. @ ___:___

Supraventricular Arrhythmia Summary:

Single/PAC: _____ beats

Couplets: _____

Total number of SVT Runs _____

Number of beats in longest SVT run _____

Intermittent Atrial Fibrillation / Atrial Flutter:

Yes No

If yes, _____ total no. of episodes

If yes, ___ . ___ min.secs (duration of longest episode)

AV Block: (Choose all that apply)

Transient AV block, 2nd degree-Mobitz type 1 (Wenkebach) N/A

_____ total no. of episodes _____ duration of longest episode (secs)

Transient AV block, 2nd degree-Mobitz type 2 N/A

_____ total no. of episodes _____ duration of longest episode (secs)

Transient AV block, 3rd degree N/A

_____ total no. of episodes _____ duration of longest episode (secs)

Comments:

PI Signature: _____ Date: _____

Entered to eCRF

Initials _____

FORM NO. CNA024	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
ECG - Week 1	
Date of Procedure: ____/____/____ Time: ____:____	
PR interval: 0.____ sec QRS interval: 0.____ sec QT interval: 0.____ sec HR: ____ bpm	
<input type="checkbox"/> ECG NORMAL <input type="checkbox"/> ECG NOT NORMAL	
Note: If you select "ECG NORMAL", you are done with this form.	
Rhythm: (Check all that apply)	
<input type="checkbox"/> normal sinus rhythm	<input type="checkbox"/> ventricular demand pacemaker (VVI)
<input type="checkbox"/> sinus arrhythmia	<input type="checkbox"/> atrial pacemaker
<input type="checkbox"/> sinus bradycardia (<60 bpm)	<input type="checkbox"/> dual chamber pacemaker (DDD)
<input type="checkbox"/> sinus tachycardia (>100 bpm)	<input type="checkbox"/> wandering pacemaker
<input type="checkbox"/> atrial fibrillation	<input type="checkbox"/> accelerated idioventricular rhythm
<input type="checkbox"/> atrial flutter	<input type="checkbox"/> atrial premature complexes
<input type="checkbox"/> multifocal atrial tachycardia	<input type="checkbox"/> ventricular premature complexes (PVCs)
<input type="checkbox"/> supraventricular tachycardia	<input type="checkbox"/> ventricular couplets
<input type="checkbox"/> junctional tachycardia	<input type="checkbox"/> junctional rhythm
<input type="checkbox"/> ventricular bigeminy	<input type="checkbox"/> ventricular fibrillation
<input type="checkbox"/> ectopic atrial rhythm	
<input type="checkbox"/> ventricular tachycardia (< 30 seconds) > 120 bpm <i>(must fill in a & b if this box is checked)</i>	
If ventricular tachycardia, please complete:	
a. Length: ____ complexes	b. Average Rate: ____ bpm
If patient is on pacemaker (as indicated above), choose level of pacing:	
<input type="checkbox"/> 100% paced	<input type="checkbox"/> intermittently paced <input type="checkbox"/> N/A <i>(If 100% paced, do not complete rest of form)</i>
AV Conduction Abnormalities: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> AV block, 1st degree	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 1 (Wenkebach)	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 2	
<input type="checkbox"/> AV block, 3rd degree	
Abnormalities of P wave: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left atrial enlargement	<input type="checkbox"/> Right atrial enlargement
Abnormalities of QRS axis: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left axis deviation(> -30°)	<input type="checkbox"/> Right axis deviation (> +100°)
QRS voltage abnormalities: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Low voltage	<input type="checkbox"/> Right ventricular hypertrophy
<input type="checkbox"/> Left ventricular hypertrophy	



FORM NO. CNA024						
Acrostic Identifier:						
Study ID:						
Date source form completed: ____/____/____						
ECG - Week 1						
Intraventricular conduction abnormalities: (Choose all that apply)						<input type="checkbox"/> NONE
<input type="checkbox"/> Right bundle branch block, complete	<input type="checkbox"/> Right bundle branch block, incomplete	<input type="checkbox"/> Left bundle branch block, complete	<input type="checkbox"/> Left bundle branch block, incomplete			
<input type="checkbox"/> Left anterior fascicular block	<input type="checkbox"/> Left posterior fascicular block	<input type="checkbox"/> Nonspecific intraventricular conduction disturbance				
For each "Yes" response, check all locations that apply:						
Are Q waves present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment elevation present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment depression present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is T wave inversion present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is there evidence of posterior infarction?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Pathologic wave V ₂ <input type="checkbox"/>	R Abn. ST depression V ₁ , V ₂ <input type="checkbox"/>	Abn. ST elevation V ₁ , V ₂ <input type="checkbox"/>	
Is there evidence of RV infarction (right precordial leads)?	Y <input type="checkbox"/>	N <input type="checkbox"/>	N/A <input type="checkbox"/>			
Are there nonspecific ST and/or T wave abnormalities present?	Y <input type="checkbox"/>	N <input type="checkbox"/>				
Comments:						

PI Signature _____

Date: _____

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA005

Acrostic Identifier: _____

Study ID: _____

Date source form completed: ____/____/____

Physical Exam - Week 4

Date of Exam: ____/____/____ Visit is outside time window Reason: _____

Informed consent was revised since study start date

Date patient reconsented: ____/____/____ Consent version: _____

Vital Signs		NYHA Class:	CCS Class:
Weight: _____ pounds		<input type="checkbox"/> I	<input type="checkbox"/> I
Temperature: _____ °F <input type="checkbox"/> oral <input type="checkbox"/> auricle		<input type="checkbox"/> II	<input type="checkbox"/> II
Respirations: _____ breaths/minute		<input type="checkbox"/> III	<input type="checkbox"/> III
Heart rate: _____ beats/minute		<input type="checkbox"/> IV	<input type="checkbox"/> IV
Blood Pressure: _____ / _____ mmHg (supine) SBP DBP		<input type="checkbox"/> N/A	<input type="checkbox"/> N/A

Review of Systems:

Have changes occurred since previous visit? Yes No If no, table is complete.

<u>Organs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Not Examined</u>	<u>Describe</u>
Skin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HEENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lungs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Abdomen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lymph Nodes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Musculoskeletal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Neurological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Questions

Has the patient experienced a new adverse event since the last follow-up visit? (If yes, complete AE form) Yes No

Have there been any significant changes in physical findings since the last follow-up visit? (If yes, please explain in comments) Yes No

Have there been any changes to medications since the last follow-up visit? (If yes, update medication form) Yes No



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA005

Acrostic Identifier: _____

Study ID: _____

Date source form completed: ____/____/____

Physical Exam - Week 4

Questions

Was the NIH Stroke Scale assessment completed? (If not done, or if result is evidence of deficit, please explain in comments) Yes No No evidence of deficit
Evidence of deficit

Were two 10 ml venous blood (purple top tubes) for FACS analysis and one 10 ml venous blood (green top heparin tube) for plasma cryostorage drawn to ship to the biorepository? (If no, please explain in the Comments) Yes No

Verify patient consented to Biorepository before you draw Biorepository bloods.

Has there been a change in nitrate usage since the last follow-up visit? (If yes, please update medication form) Yes No N/A

***Please remember to update medication form with inter-visit changes to medications**

Comments: _____

Entered to eCRF Initials _____



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA021			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Week 4			
Date and time specimen obtained: Date: ____/____/____ Time: ____:____			
CBC with Differential	Result	Unit	Normal Range
WBC		K/mm ³	4.0-11.0 K/mm ³
RBC		M/mm ³	4.0-6.0 M/mm ³
Hgb		gm/dL	12.0-17.5 gm/dL
Hct		%	33-53%
MCV		fL	78-100 fL
Platelets		K/mm ³	135-450 K/mm ³
WBC Differential			
Neutrophils		%	36-74%
Lymphocytes		%	12-45%
Monocytes		%	0-13%
Eosinophils		%	0-8%
Basophils		%	< 3.0%
Cardiac Markers (Either Troponin T or Troponin I should be completed, NOT both)			
Troponin T		ng/ml	0.0-10 ng/ml
Troponin I		ng/ml	0.0-100 ng/ml
CK		U/L	25-10,000 U/L
CK-MB		ng/ml	0.0-250 ng/ml
Chem-8			
BUN		mg/dL	5-26 mg/dL
Creatinine		mg/dL	0.4-1.5 mg/dL
Liver Function Tests			
Bilirubin-Total		mg/dL	0.0-1.5 mg/dL
Bilirubin-Direct		mg/dL	0.0-0.4 mg/dL
Total Protein		g/dL	6.0-8.5 g/dL
Alk Phos		U/L	30-150 U/L
ALT		U/L	0-50 U/L
AST		U/L	0-42 U/L



Cardiovascular Cell Therapy Research Network

FOCUS Protocol Workbook

FORM NO. CNA021			
Acrostic Identifier:			
Study ID:			
Date source form completed: ____/____/____			
Laboratory Tests - Week 4			
Other Tests			
BNP		pg/ml	0-100 pg/ml
hsCRP		mg/L	0.0-40 mg/L
Pregnancy Test (women of childbearing potential)			Negative (urine)
<input type="checkbox"/> Not applicable			< 5.0 mU/ml (quantitative blood)
Comments:			

PI Signature _____

Date: _____

Entered to eCRF

Initials _____



Cardiovascular Cell Therapy Research Network
FOCUS Protocol Workbook

FORM NO. CNA023	
Acrostic Identifier:	
Study ID:	
Date source/workbook completed: ____/____/____	
Holter Data Form - Week 4	
Date procedure started: ____/____/____	Predominant Rhythm: <i>(mutually exclusive)</i>
Total recording time: ____:____	<input type="checkbox"/> Sinus Rhythm <input type="checkbox"/> Junctional Rhythm
General: Total beats/QRS Complexes: _____ beats Paced beats: _____ beats	<input type="checkbox"/> Paced Rhythm <input type="checkbox"/> Ectopic Atrial Rhythm
	<input type="checkbox"/> Atrial Flutter / Fibrillation
Pauses/Longest RR Interval (> 2 secs): Longest pause was ____ seconds @ ____:____ Total number of pauses: _____	Heart Rates: Minimum: _____beats/min. @ ____:____ Average: _____beats/min. Maximum: _____beats/min. @ ____:____
Ventricular Arrhythmia Summary: Single/PVC: _____ beats Couplets: _____ Total number of NSVT Runs (≥ 3 beats) _____ Number of beats in longest NSVT run _____ Total number of sustained ventricular tachycardia runs (≥ 30 secs) _____	Supraventricular Arrhythmia Summary: Single/PAC: _____ beats Couplets: _____ Total number of SVT Runs _____ Number of beats in longest SVT run _____ Intermittent Atrial Fibrillation / Atrial Flutter: <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, _____ total no. of episodes If yes, ____ . ____ min.secs (duration of longest episode)
AV Block: (Choose all that apply)	
<input type="checkbox"/> Transient AV block, 2nd degree-Mobitz type 1 (Wenkebach) <input type="checkbox"/> N/A	
_____ total no. of episodes _____ duration of longest episode (secs)	
<input type="checkbox"/> Transient AV block, 2nd degree-Mobitz type 2 <input type="checkbox"/> N/A	
_____ total no. of episodes _____ duration of longest episode (secs)	
<input type="checkbox"/> Transient AV block, 3rd degree <input type="checkbox"/> N/A	
_____ total no. of episodes _____ duration of longest episode (secs)	
Comments:	

PI Signature: _____ Date: _____

Entered to eCRF Initials _____



FORM NO. CNA024	
Acrostic Identifier:	
Study ID:	
Date source form completed: ____/____/____	
ECG - Week 4	
Date of Procedure: ____/____/____ Time: ____:____	
PR interval: 0.____ sec QRS interval: 0.____ sec QT interval: 0.____ sec HR: ____ bpm	
<input type="checkbox"/> ECG NORMAL <input type="checkbox"/> ECG NOT NORMAL	
Note: If you select "ECG NORMAL", you are done with this form.	
Rhythm: (Check all that apply)	
<input type="checkbox"/> normal sinus rhythm	<input type="checkbox"/> ventricular demand pacemaker (VVI)
<input type="checkbox"/> sinus arrhythmia	<input type="checkbox"/> atrial pacemaker
<input type="checkbox"/> sinus bradycardia (<60 bpm)	<input type="checkbox"/> dual chamber pacemaker (DDD)
<input type="checkbox"/> sinus tachycardia (>100 bpm)	<input type="checkbox"/> wandering pacemaker
<input type="checkbox"/> atrial fibrillation	<input type="checkbox"/> accelerated idioventricular rhythm
<input type="checkbox"/> atrial flutter	<input type="checkbox"/> atrial premature complexes
<input type="checkbox"/> multifocal atrial tachycardia	<input type="checkbox"/> ventricular premature complexes (PVCs)
<input type="checkbox"/> supraventricular tachycardia	<input type="checkbox"/> ventricular couplets
<input type="checkbox"/> junctional tachycardia	<input type="checkbox"/> junctional rhythm
<input type="checkbox"/> ventricular bigeminy	<input type="checkbox"/> ventricular fibrillation
<input type="checkbox"/> ectopic atrial rhythm	
<input type="checkbox"/> ventricular tachycardia (< 30 seconds) > 120 bpm <i>(must fill in a & b if this box is checked)</i>	
If ventricular tachycardia, please complete:	
a. Length: ____ complexes	b. Average Rate: ____ bpm
If patient is on pacemaker (as indicated above), choose level of pacing:	
<input type="checkbox"/> 100% paced	<input type="checkbox"/> intermittently paced <input type="checkbox"/> N/A <i>(If 100% paced, do not complete rest of form)</i>
AV Conduction Abnormalities: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> AV block, 1st degree	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 1 (Wenkebach)	
<input type="checkbox"/> AV block, 2nd degree Mobitz type 2	
<input type="checkbox"/> AV block, 3rd degree	
Abnormalities of P wave: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left atrial enlargement	<input type="checkbox"/> Right atrial enlargement
Abnormalities of QRS axis: (Choose one) <input type="checkbox"/> NONE	
<input type="checkbox"/> Left axis deviation(> -30°)	<input type="checkbox"/> Right axis deviation (> +100°)
QRS voltage abnormalities: (Choose all that apply) <input type="checkbox"/> NONE	
<input type="checkbox"/> Low voltage	<input type="checkbox"/> Right ventricular hypertrophy
<input type="checkbox"/> Left ventricular hypertrophy	



FORM NO. CNA024						
Acrostic Identifier:						
Study ID:						
Date source form completed: ____/____/____						
ECG - Week 4						
Intraventricular conduction abnormalities: (Choose all that apply)						<input type="checkbox"/> NONE
<input type="checkbox"/> Right bundle branch block, complete			<input type="checkbox"/> Left bundle branch block, complete			
<input type="checkbox"/> Right bundle branch block, incomplete			<input type="checkbox"/> Left bundle branch block, incomplete			
<input type="checkbox"/> Left anterior fascicular block			<input type="checkbox"/> Nonspecific intraventricular conduction disturbance			
<input type="checkbox"/> Left posterior fascicular block						
For each "Yes" response, check all locations that apply:						
Are Q waves present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment elevation present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is ST segment depression present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is T wave inversion present?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Anterior <input type="checkbox"/>	Lateral <input type="checkbox"/>	Inferior <input type="checkbox"/>	
Is there evidence of posterior infarction?	Y <input type="checkbox"/>	N <input type="checkbox"/>	Pathologic wave V ₂ <input type="checkbox"/>	R Abn. ST depression V ₁ , V ₂ <input type="checkbox"/>	Abn. ST elevation V ₁ , V ₂ <input type="checkbox"/>	
Is there evidence of RV infarction (right precordial leads)?	Y <input type="checkbox"/>	N <input type="checkbox"/>	N/A <input type="checkbox"/>			
Are there nonspecific ST and/or T wave abnormalities present?	Y <input type="checkbox"/>	N <input type="checkbox"/>				
Comments:						

PI Signature _____

Date: _____

Entered to eCRF Initials _____