PARTICIPANT ID	DATE	STAFF ID	VISIT
Y6PPTID	Y6DATE	Y6STAFID	Year 5

HEART AND SOUL STUDY

CARDIOLOGY DATA COLLECTION FORM

First Name: Y6CFNM **DOB:** Y6CDOB /

Last Name: Y6CLNM **Weight:** Y6CWGHT1 lbs Y6CWGHT2 oz

SSN: Y6CSSN -

Height: Y6HGHT. cm

Fellow's Last Name: Y6CFEL **BSA:** Y6CBSA. m2

RESTING MEASUREMENTS

Cuff size: Y6REST1 1 Small 2 Medium 3 Large

Arm used: Y6REST2 1 Right 2 Left

Supine blood pressure (after at least 5 minutes supine): Y6REST3A mmHg (SBP) / Y6REST3B mmHg (DBP)

Pulse (after at least 5 minutes supine): Y6REST4 beats/min

O2 Sat: Y6REST5 %

ECHO MEASUREMENTS

Date: / / Y6RECH1 **Time:** : Y6RECH2

Parasternal long:

AoRd(Aortic Root,diastole)-2D(cm) . Y6NRECH1

LVOT diameter -2D (cm): . Y6ECHO5

Mid Asc. Aorta diameter, 2D (cm) : . Y6ECHO3

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Parasternal short:

LV Epi. Area, psax pap,end-diast (cm2) Y6NRECH2

LV Endo. Area, psax pap,end diast (cm2) Y6NRECH3

LV mass -truncated ellipse (grams) Y6RECH19

LV Mass Index (g/m2): Y6ECHO84

PA VTI (m): Y6ECHO8

PR-Peak diastolic Gradient (mmHg) Y6NECH7

PR end-diastolic Gradient (mmHg) Y6ECHO10

Peak TR (RV/RA gradient:) (mmHg) Y6RECH15

Apical:

LVEDV biplane M.O.D. (ml) Y6RECH21

LVESV biplane M.O.D. (ml) Y6RECH20

LV EF BP MOD% Y6ECHO82

LAEDV biplane M.O.D. (ml) Y6ECHO40

LAESV biplane M.O.D. (ml) Y6ECHO39

LAESVI (ml/m2) Y6NECH32

RAEDV single plane (ml) Y6ECHO42

RAESV single plane (ml) Y6ECHO41

MV VTI leaflet tips (m) Y6ECHO21

MR VTI-CW(m) Y6NECH9

MR CW gradient (mmHg) Y6ECHO23

Dp/dt - MR CW jet (mmHg/sec) Y6NECH10

MR PISA radius (cm) Y6NECH11
(Nyquist limit approx. 55 mm/sec)

MV VTI annulus (m) Y6ECHO32

MV annular diameter diastole (cm): Y6ECHO31

MV Inflow- PW E wave (m/sec) Y6RECH23

MV Inflow- PW A wave (m/sec) Y6RECH24

Mdt (deceleration time) (msec) Y6ECHO27

MV a dur (msec) Y6ECHO28

Mitral P 1/2 Time (msec) Y6ECHO29

IVRT (CW or PW) (msec) Y6ECHO30

PVa dur (m/sec) Y6NECH13

Pulmonary vein VTI (systolic) (m) Y6ECHO34

Pulmonary vein VTI (diastolic) (m) Y6ECHO35

Pulmonary venous flow: Y6RECH22
1 systolic dominant
0 diastolic dominant

DTI lateral wall base- Ea (m/sec) Y6NECH16

DTI RV base- Ea (m/sec) Y6NECH18

E/Ea Y6NECH24

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Apical Five:

LVOT VTI CW (m) Y6ECHO47

AoV VTI CW (m) Y6ECHO51

LVOT peak gradient PW (mmHg) Y6ECHO49

AoV Peak gradient (mmHg) Y6RECH5

LVOT mean gradient PW (mmHg) Y6ECHO50

AoV Mean gradient (mmHg) Y6RECH6

Peak LVOT dynamic gradient (mmHg) Y6NECH20

AVA (Aortic valve area) (cm2) Y6RECH4

Subcostal:

IVC diameter expiration- max (cm) Y6NECH21

IVC diameter inspiration- min (cm) Y6NECH22

Hepatic vein flow S vs D: Y6ECHO57

2 Systolic 3 Codominant 1 Diastolic

Suprasternal notch:

Decending Aorta velocity, PW (m/sec) Y6ECHO67

SVC PW flow: Y6ECHO69

4 continuous 3 Codominant

2 Systolic 1 Diastolic

Echo Measurement Pre-exercise:

LVEDV biplane M.O.D. (ml) Y6NEXEC3

LVESV biplane M.O.D. (ml) Y6NEXEC2

LV EF% (biplane M.O.D.) Y6NEXEC4

Echo Measurements Post-Exercise:

LVEDV biplane M.O.D. (ml) Y6EXEC3

LVESV biplane M.O.D. (ml) Y6EXEC2

LV EF % (biplane M.O.D.) Y6ECHO83

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TREADMILL MEASUREMENTS (including *for Duke Treadmill score, Standard Bruce Protocol)

Date: ___ / Y6TRDM1 / ___ **Time:** Y6TRDM2 : ___

Pre-Exercise BP, standing: Y6NECH39A / Y6NECH39B mmHg

BP at peak exercise, standing: Y6TRDM3A / Y6TRDM3B mmHg

SBP DBP

(Make sure the same arm and cuff size are used for pre and peak)

HR at peak exercise: Y6TRDM4 beats/min **HR at exactly 60 seconds post exercise:** Y6TRDM7 beats/min

Maximum number of METS achieved: Y6TRDM14

***Duration of Exercise:**

Standard Bruce: Y6TRDM23 mins Y6TRDM24 secs

Modified Bruce: Y6TRDM25 mins Y6TRDM26 secs Y6TRDM27 ☐ N/A

Manual settings: Y6TRDM28 mins Y6TRDM29 secs Y6TRDM30 ☐ N/A

Why was the modified Bruce attempted?

☐ 1 Patient did not reach 85% of max predicted HR during Standard Bruce protocol Y6TRDM31A

☐ 1 Patient completed less than 6 minutes of Standard Bruce protocol Y6TRDM31B

***Angina:** ☐ 0 No Angina ☐ 1 Nonlimiting angina ☐ 2 Angina was the reason patient stopped exercising Y6TRDM8

Patient stopped exercise due to:

☐ 1 Chest pain Y6TRDM9A

☐ 1 Shortness of breath Y6TRDM9B

☐ 1 Leg pain Y6TRDM9C

☐ 1 Arrhythmia Y6TRDM9D

☐ 1 Knee pain Y6TRDM9E

☐ 1 ST segment depression Y6TRDM9F

☐ 1 Fatigue Y6TRDM9G

☐ 1 Other Y6TRDM9H

Please specify: Y6TRDM10

Arrhythmia during exercise: Y6TRDM11
0 None 1 Atrial 2 Ventricular

Arrhythmia during recovery: Y6TRDM12
0 None 1 Atrial 2 Ventricular

Maximum number of PVCs per minute: Y6TRDM13

Other electrocardiographic findings: Y6TRDM15

***Largest net ST segment deviation during or after exercise (millimeters):** Y6TRDM16A ___.___ mm

What lead?(check one only) 1 I 2 II 3 III 4 aVR 5 aVL 6 aVF Y1TRDM17
7 V1 8 V2 9 V3 10 V4 11 V5 12 V6

Largest net ST segment elevation during or after exercise (millimeters): Y6TRDM18A ___.___ mm

What lead?(check one only) 1 I 2 II 3 III 4 aVR 5 aVL 6 aVF Y6TRDM19
7 V1 8 V2 9 V3 10 V4 11 V5 12 V6

Number of leads showing ST segment depression or elevation of 1mm or more: Y6TRDM20

Time to onset of ST segment deviation: Y6TRDM21 ____ mins Y6TRDM22 ____ secs

Clinical Impression: (Treadmill only) Y6TRDM32

1 Exercise-induced ECG changes consistent with probable ischemia

2 Exercise-induced ECG changes consistent with possible ischemia

3 No ECG criteria for exercise-induced ischemia

4 Uninterpretable (e.g., paced rhythm, LBBB)

ECHOCARDIOGRAPHIC EXERCISE INDUCED WALL MOTION ABNORMALITY:

Y6EXEC4
0 No
1 Yes →

Y6EXEC5
1 1 Territory
2 2 Territories
3 3 Territories

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ECHO WALL MOTION SCORE- PRE EXERCISE						
	Normal 1	**Hypokinesis 2**	**Akinesis 3**	**Dyskinesis 4**	**Aneurysm 5**	**Not visualized**
Basal anteroseptum Y6RECH25	1	2	3	4	5	0
Basal anterior wall Y6RECH26	1	2	3	4	5	0
Basal anterolateral wall Y6RECH27	1	2	3	4	5	0
Basal posterolateral wall Y6RECH28	1	2	3	4	5	0
Basal inferior wall Y6RECH29	1	2	3	4	5	0
Basal inferoseptum Y6RECH30	1	2	3	4	5	0
Midanteroseptum Y6RECH31	1	2	3	4	5	0
Midanterior wall Y6RECH32	1	2	3	4	5	0
Midanterolateral wall Y6RECH33	1	2	3	4	5	0
Midposterolateral wall Y6RECH34	1	2	3	4	5	0
Midinferior wall Y6RECH35	1	2	3	4	5	0
Midinferoseptum Y6RECH36	1	2	3	4	5	0
Apical septum Y6RECH37	1	2	3	4	5	0
Anterior apex Y6RECH38	1	2	3	4	5	0
Lateral apex Y6RECH39	1	2	3	4	5	0
Inferior apex Y6RECH40	1	2	3	4	5	0

ECHO WALL MOTION SCORE- POST EXERCISE

	Normal 1	Hypokinesis 2	Akinesis 3	Dyskinesis 4	Aneurysm 5	Not visualized
Basal anteroseptum Y6EXEC6	1	2	3	4	5	0
Basal anterior wall Y6EXEC7	1	2	3	4	5	0
Basal anterolateral wall Y6EXEC8	1	2	3	4	5	0
Basal posterolateral wall Y6EXEC9	1	2	3	4	5	0
Basal inferior wall Y6EXEC10	1	2	3	4	5	0
Basal inferoseptum Y6EXEC11	1	2	3	4	5	0
Midanteroseptum Y6EXEC12	1	2	3	4	5	0
Midanterior wall Y6EXEC13	1	2	3	4	5	0
Midanterolateral wall Y6EXEC14	1	2	3	4	5	0
Midposterolateral wall Y6EXEC15	1	2	3	4	5	0
Midinferior wall Y6EXEC16	1	2	3	4	5	0
Midinferoseptum Y6EXEC17	1	2	3	4	5	0
Apical septum Y6EXEC18	1	2	3	4	5	0
Anterior apex Y6EXEC19	1	2	3	4	5	0
Lateral apex Y6EXEC20	1	2	3	4	5	0
Inferior apex Y6EXEC21	1	2	3	4	5	0

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Valves:

Reviewer's Assesment

Aortic Regurgitation Grade- Color: Y6RECH7

0 None 1 Trace 2 Mild 3 Moderate 4 Severe

Aortic Stenosis: Y6NECH30

0 None 1 Trace 2 Mild 3 Moderate 4 Severe

Mitral Regurgitation: Y6RECH12

0 None 1 Trace 2 Mild 3 Moderate 4 Severe

Tricuspid Regurgitation: Y6RECH8

0 None 1 Trace 2 Mild 3 Moderate 4 Severe

Pulmonary Regurgitation: Y6NECH50

0 None 1 Trace 2 Mild 3 Moderate 4 Severe

Denote if present:

Mitral Stenosis ☐ Y6RECH9

Mitral Valve Prolapse ☐ Y6RECH10

Pulmonic Stenosis ☐ Y6RECH13

RA pressure from IVC collapse (mmHg) ☐☐ Y6RECH14

Diastolic Function: Y6NECH52

0 Normal
1 Impaired relaxation, normal for age
2 Impaired relaxation, abnormal for age
3 Pseudonormal
4 Restrictive

Other Findings

Y6NECH51

	Calcium score (Year 5) 0=None 1=Mild		Calcium score (Baseline) 2=Moderate 3=Severe	
Aortic Valve	Y6RECH3	(0-3)	Y6NECH40	
Aortic Ring	Y6NRECH33		Y6RNECH41	
Aortic Sinus	Y6NECH53		Y6NECH54	
Sinotubular Junction	Y6NRECH34		Y6NRECH42	
Left Main Coronary	Y6NRECH35		Y6NRECH43	
Mitral Annular (MAC)	Y6RECH11		Y6NECH44	
Papillary Tip	Y6NRECH36		Y6NRECH45	
MV leaflet	Y6NRECH37		Y6NRECH46	
Abdominal Aorta	Y6ECHO53		Y6NECH47	
Aortic Arch	Y6NECH38		Y6NECH48	

Comparison With Prior Study

Y6NECH49