Section A: KEY IDENTIFYING INFORMATION

A1. Echocardiogram Identification Number ___ ___ - ___ ___ ___ ___ ___ ___ - ___
REMOVED BLIND_ID

<Created variables> Study visit VISIT
BASELINE.....VSCR
FOLLOW-UP VISIT 1 .....VFV1
FOLLOW-UP VISIT 2 .....VFV2
FOLLOW-UP VISIT 3 .....VFV3
FOLLOW-UP VISIT 4 .....VFV4

<Created variables> Indicator of acquisition, sonographer, reader and time of reading
ITEMCODE

CD1, Primary Sonographer, Primary Reader, immediate read……CD1_PSPR_IM
CD1, Primary Sonographer, Primary Reader, 4-week read……..CD1_PSPR_4W
CD1, Primary Sonographer, Primary Reader, 1-year read……..CD1_PSPR_IY
CD1, Primary Sonographer, Secondary Reader, immediate read……..CD1_PSSR_IM
CD2, Secondary Sonographer, Primary Reader, immediate read…....CD2_SSPR_IM
CD2, Secondary Sonographer, Secondary Reader, immediate read….CD2_SSSR_IM

A2. Echo Core Lab Identifier ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
REMOVED

A3. Date of echocardiogram ___ ___ / ___ ___ / ___ ___ ___ ___
REMOVED AGE_ECHO_D M M D D Y Y Y Y

A4. Measurer Identification Number ___
REMOVED

A5. Date of central reading ___ ___ / ___ ___ / ___ ___ ___ ___
REMOVED M M D D Y Y Y Y

A6. Acceptable for analysis YES .....1 (**A7**) NO…….2 ACCEPTABLE

a. Reason not acceptable UNACCEPT

_____ UNACCEPT

STOP – FORM COMPLETE

A7. Image quality IMGQUAL
EXCELLENT.....1
GOOD..... 2
FAIR..... 3

Section B: CLINICAL ASSESSMENT

B1. Height at echocardiogram ___ ___ ___ . ___ cm HT_ECHO
<created variable> Height for age z-score (CDC) HAZ

B2. Weight at echocardiogram ___ ___ ___ . ___ ___ kg WT_ECHO
<created variable> Weight for age z-score (CDC) WAZ

B3. Body surface area ___ . ___ ___ m^2 BSA
<created variable> Body surface area for age z-score BSA_Z
<created variable> BMI for age z-score (CDC) BMIAZ

B4. Blood Pressure

a. Systolic blood pressure ___ ___ ___ mmHg SBP

b. Diastolic blood pressure ___ ___ ___ mmHg DBP

c. Mean blood pressure ___ ___ ___ mmHg MBP

<created variable> Systolic blood pressure vs. age z-score SBP_Z

<created variable> Diastolic blood pressure vs. age z-score DBP_Z

<created variable> Mean blood pressure vs. age z-score MBP_Z

Section C: LEFT VENTRICULAR FUNCTION

C0.	Were regional wall motion abnormalities or septal flattening present at any time during the cardiac cycle? CABNCYC	YES 1	NO 2

			a. Beat 1	b. Beat 2	c. Beat 3
m-mode					
C1.	End-diastolic short axis dimension (cm) CMMEDSAD_AVG CMMEDSAD_Z		___ ___ . ___ ___ CMMEDSAD1	___ ___ . ___ ___ CMMEDSAD2	___ ___ . ___ ___ CMMEDSAD3
C2.	End-systolic short axis dimension (cm) CMMESSAD_AVG CMMESSAD_Z		___ ___ . ___ ___ CMMESSAD1	___ ___ . ___ ___ CMMESSAD2	___ ___ . ___ ___ CMMESSAD3
C3.	End-diastolic septal thickness (cm) CMMEDST_AVG CMMEDST_Z		___ . ___ ___ CMMEDST1	___ . ___ ___ CMMEDST2	___ . ___ ___ CMMEDST3
C4.	End-systolic septal thickness (cm) CMMESST_AVG CMMESST_Z		___ . ___ ___ CMMESST1	___ . ___ ___ CMMESST2	___ . ___ ___ CMMESST3
C5.	End-diastolic posterior wall thickness (cm) CMMEDPWT_AVG CMMEDPWT_Z		___ . ___ ___ CMMEDPWT1	___ . ___ ___ CMMEDPWT2	___ . ___ ___ CMMEDPWT3
C6.	End-systolic posterior wall thickness (cm) CMMESPWT_AVG CMMESPWT_Z		___ . ___ ___ CMMESPWT1	___ . ___ ___ CMMESPWT2	___ . ___ ___ CMMESPWT3
Two-D					
C7.	End-diastolic short axis dimension (cm) C2DEDSAD_AVG C2DEDSAD_Z		___ ___ . ___ ___ C2DEDSAD1	___ ___ . ___ ___ C2DEDSAD2	___ ___ . ___ ___ C2DEDSAD3
C8.	End-systolic short axis dimension (cm) C2DESSAD_AVG C2DESSAD_Z		___ ___ . ___ ___ C2DESSAD1	___ ___ . ___ ___ C2DESSAD2	___ ___ . ___ ___ C2DESSAD3
C9.	End-diastolic septal thickness (cm) C2DEDST_AVG C2DEDST_Z		___ . ___ ___ C2DEDST1	___ . ___ ___ C2DEDST2	___ . ___ ___ C2DEDST3
C10.	End-systolic septal thickness (cm) C2DESST_AVG C2DESST_Z		___ . ___ ___ C2DESST1	___ . ___ ___ C2DESST2	___ . ___ ___ C2DESST3
C11.	End-diastolic posterior wall thickness (cm) C2DEDPWT_AVG		___ . ___ ___ C2DEDPWT1	___ . ___ ___ C2DEDPWT2	___ . ___ ___ C2DEDPWT3

			a. Beat 1	b. Beat 2	c. Beat 3
	C2DEDPWT_Z				
C12.	End-systolic posterior wall thickness (cm) C2DESPWT_AVG C2DESPWT_Z		___ . ___ ___ C2DESPWT1	___ . ___ ___ C2DESPWT2	___ . ___ ___ C2DESPWT3
C13.	End-diastolic 4-ch endocardial long axis dimension (cm) C2DEDLAD_AVG C2DEDLAD_Z		___ ___ . ___ ___ C2DEDLAD1	___ ___ . ___ ___ C2DEDLAD2	___ ___ . ___ ___ C2DEDLAD3
C14.	End-diastolic 4-ch epicardial long axis dimension (cm) C2DEPD_AVG		___ ___ . ___ ___ C2DEPD1	___ ___ . ___ ___ C2DEPD2	___ ___ . ___ ___ C2DEPD3
C15.	End-systolic 4-ch endocardial long axis dimension (cm) C2DESLAD_AVG C2DESLAD_Z		___ ___ . ___ ___ C2DESLAD1	___ ___ . ___ C2DESLAD2 ___	___ ___ . ___ C2DESLAD3 ___
C16.	End-diastolic short axis endocardial area (cm^2) C2DEDEN_AVG C2DEDEN_Z		___ ___ ___ . ___ C2DEDEN1	___ ___ ___ . ___ C2DEDEN2	___ ___ ___ . ___ C2DEDEN3
C17.	End-diastolic short axis epicardial area (cm^2) C2DEDEPA_AVG		___ ___ ___ . ___ C2DEDEPA1	___ ___ ___ . ___ C2DEDEPA2	___ ___ ___ . ___ C2DEDEPA3
C18.	End-systolic short axis endocardial area (cm^2) C2DESENA_AVG C2DESENA_Z		___ ___ ___ . ___ C2DESENA1	___ ___ ___ . ___ C2DESENA2	___ ___ ___ . ___ C2DESENA3
C19.	End-diastolic 4-ch long axis endocardial area (cm^2) C2DED4ENA_AVG		___ ___ ___ . ___ C2DED4ENA1	___ ___ ___ . ___ C2DED4ENA2	___ ___ ___ . ___ C2DED4ENA3
C20.	End-diastolic 4-ch long axis epicardial area (cm^2) C2DED4EPA_AVG		___ ___ ___ . ___ C2DED4EPA1	___ ___ ___ . ___ C2DED4EPA2	___ ___ ___ . ___ C2DED4EPA3
C21.	End-systolic 4-ch long axis endocardial area (cm^2) C2DES4ENA_AVG		___ ___ ___ . ___ C2DES4ENA1	___ ___ ___ . ___ C2DES4ENA2	___ ___ ___ . ___ C2DES4ENA3
C22.	End-diastolic 2-ch long axis endocardial area (cm^2) C2DED2ENA_AVG		___ ___ ___ . ___ C2DED2ENA1	___ ___ ___ . ___ C2DED2ENA2	___ ___ ___ . ___ C2DED2ENA3
C23.	End-diastolic 2-ch long axis epicardial area (cm^2) C2DED2EPA_AVG		___ ___ ___ . ___ C2DED2EPA1	___ ___ ___ . ___ C2DED2EPA2	___ ___ ___ . ___ C2DED2EPA3
C24.	End-systolic 2-ch long axis endocardial area (cm^2) C2DES2ENA_AVG		___ ___ ___ . ___ C2DES2ENA1	___ ___ ___ . ___ C2DES2ENA2	___ ___ ___ . ___ C2DES2ENA3
C25.	End-diastolic volume (mL) [5/6*area*length] CEDV_AVG CEDV_Z		___ ___ ___ . ___ CEDV1	___ ___ ___ . ___ CEDV2	___ ___ ___ . ___ CEDV3

			a. Beat 1	b. Beat 2	c. Beat 3
C26.	End-systolic volume (mL) [5/6*area*length] CESV_AVG CESV_Z		___ ___ ___ . __ __ CESV1	___ ___ ___ . __ __ CESV2	___ ___ ___ . __ __ CESV3
C27.	Ventricular mass (g) [5/6*area*length] CVENTMA_AVG CVENTMA_Z		___ ___ ___ . __ __ CVENTMA1	___ ___ ___ . __ __ CVENTMA2	___ ___ ___ . __ __ CVENTMA3
C28.	End-diastolic volume (mL) [Biapical Simpsons] CEDVBS_AVG		___ ___ ___ . __ __ CEDVBS1	___ ___ ___ . __ __ CEDVBS2	___ ___ ___ . __ __ CEDVBS3
C29.	End-systolic volume (mL) [Biapical Simpsons] CESVBS_AVG		___ ___ ___ . __ __ CESVBS1	___ ___ ___ . __ __ CESVBS2	___ ___ ___ . __ __ CESVBS3
C30.	Ventricular mass (g) [Biapical Simpsons] CVNTMABS_AVG		___ ___ ___ . __ __ CVNTMABS1	___ ___ ___ . __ __ CVNTMABS2	___ ___ ___ . __ __ CVNTMABS3
C31.	End-diastolic volume (mL) [Modified Simpsons] CEDVMS_AVG		___ ___ ___ . __ __ CEDVMS1	___ ___ ___ . __ __ CEDVMS2	___ ___ ___ . __ __ CEDVMS3
C32.	End-systolic volume (mL) [Modified Simpsons] CESVMS_AVG		___ ___ ___ . __ __ CESVMS1	___ ___ ___ . __ __ CESVMS2	___ ___ ___ . __ __ CESVMS3
C33.	Ventricular mass (g) [Modified Simpsons] CVNTMAMS_AVG		___ ___ ___ . __ __ CVNTMAMS1	___ ___ ___ . __ __ CVNTMAMS2	___ ___ ___ . __ __ CVNTMAMS3
C34.	Ventricular mass (g) [m-mode] CVNTMAMM_AVG CVNTMAMM_Z		___ ___ ___ . ___ CVNTMAMM1	___ ___ ___ . ___ CVNTMAMM2	___ ___ ___ . ___ CVNTMAMM3
C35.	Thickness-to-dimension ratio CRATIO_AVG CRATIO_Z		___ . ___ ___ CRATIO1	___ . ___ ___ CRATIO2	___ . ___ ___ CRATIO3
C36.	Mass-to-volume ratio [5/6*area*length] CMVR_AVG CMVR_Z		___ . ___ ___ CMVR1	___ . ___ ___ CMVR2	___ . ___ ___ CMVR3
C37.	Mass-to-volume ratio [Biapical Simpsons] CMVRBS_AVG		___ . ___ ___ CMVRBS1	___ . ___ ___ CMVRBS2	___ . ___ ___ CMVRBS3
C38.	Mass-to-volume ratio [Modified Simpsons] CMVRMS_AVG		___ . ___ ___ CMVRMS1	___ . ___ ___ CMVRMS2	___ . ___ ___ CMVRMS3
C39.	Heart rate (beats/minute) [5/6*area*length] CHRATE_AVG		___ ___ ___ CHRATE1	___ ___ ___ CHRATE2	___ ___ ___ CHRATE3
C40.	Stroke volume [5/6*area*length] CSTRKV_AVG CSTRKV_Z		___ ___ ___ . ___ CSTRKV1	___ ___ ___ . ___ CSTRKV2	___ ___ ___ . ___ CSTRKV3

			a. Beat 1	b. Beat 2	c. Beat 3
C41.	Cardiac output (L/min) [5/6*area*length] CCOUT_AVG		__ __ . __ CCOUT1	__ __ . __ CCOUT2	__ __ . __ CCOUT3
C42.	Cardiac index (L/min/m^2) [5/6*area*length] CCIND_AVG		__ __ . __ CCIND1	__ __ . __ CCIND2	__ __ . __ CCIND3
C43.	Systemic resistance (mmHg/L/min) [5/6*area*length] CSYSRS_AVG		__ __ __. __ CSYSRS1	__ __ __. __ CSYSRS2	__ __ __. __ CSYSRS3
C44.	Heart rate (beats/minute) [Biapical Simpsons] CHRATEBS_AVG		__ __ __ CHRATEBS1	__ __ __ CHRATEBS2	__ __ __ CHRATEBS3
C45.	Stroke volume [Biapical Simpsons] CSTRKVBS_AVG		__ __ __ . __ CSTRKVBS1	__ __ __ . __ CSTRKVBS2	__ __ __ . __ CSTRKVBS3
C46.	Cardiac output (L/min) [Biapical Simpsons] CCOUTBS_AVG		__ __ . __ CCOUTBS1	__ __ . __ CCOUTBS2	__ __ . __ CCOUTBS3
C47.	Cardiac index (L/min/m^2) [Biapical Simpsons] CCINDBS_AVG		__ __ . __ CCINDBS1	__ __ . __ CCINDBS2	__ __ . __ CCINDBS3
C48.	Systemic resistance (mmHg/L/min) [Biapical Simpsons] CSYSRSBS_AVG		__ __ __. __ CSYSRSBS1	__ __ __. __ CSYSRSBS2	__ __ __. __ CSYSRSBS3

Created variables			a. Beat 1	b. Beat 2	c. Beat 3
	Thickness to dimension ratio (2-D)] CRATIO2D_AVG CRATIO2D_Z		CRATIO2D1	CRATIO2D2	CRATIO2D3
	Left ventricular Mass (Devereux-2D) CVNTMADEV_AVG CVNTMADEV_Z		CVNTMADEV1	CVNTMADEV2	CVNTMADEV3
	LV end-systolic meridional stress (gm/cm2) [2D] CESSTR2D_AVG CESSTR2D_Z		CESSTR2D1	CESSTR2D2	CESSTR2D3
	LV end-systolic fiberstress [2D] CESFS2D_AVG CESFS2D_Z		CESFS2D1	CESFS2D2	CESFS2D3
	LV-diastolic septal/free wall [2D] WLRATIO2D_AVG WLRATIO2D_Z		WLRATIO2D1	WLRATIO2D2	WLRATIO2D3
	LV-diastolic short/long axis [2D] AXISR2D_AVG AXISR2D_Z		AXISR2D1	AXISR2D2	AXISR2D3

Created variables		a. Beat 1	b. Beat 2	c. Beat 3
	LV long-axis shortening fraction, % LASF_AVG LASF_Z	LASF1	LASF2	LASF3
	LV short axis area change FACHANGE_AVG FACHANGE_Z	FACHANGE1	FACHANGE2	FACHANGE3
	LV End-diastolic Septal/Free Wall ratio (m-mode) MMWALR_AVG MMWALR_Z	MMWALR1	MMWALR2	MMWALR3

CONTINUE TO FORM V306: ECHOCARDIOGRAPHY CORE LABORATORY (PART 2)

Section A: KEY IDENTIFYING INFORMATION

A1. Echocardiogram Identification Number ___ ___ - ___ ___ ___ ___ ___ ___ - ___
REMOVED BLIND_ID

<Created variable> Study visit VISIT
BASELINE .....VSCR
FOLLOW-UP VISIT 1.....VFV1
FOLLOW-UP VISIT 2.....VFV2
FOLLOW-UP VISIT 3.....VFV3
FOLLOW-UP VISIT 4.....VFV4

<Created variable> Indicator of acquisition, sonographer, reader and time of reading ITEMCODE
CD1, Primary Sonographer, Primary Reader, immediate read……CD1_PSPR_IM
CD1, Primary Sonographer, Primary Reader, 4-week read……..CD1_PSPR_4W
CD1, Primary Sonographer, Primary Reader, 1-year read……..CD1_PSPR_IY
CD1, Primary Sonographer, Secondary Reader, immediate read……..CD1_PSSR_IM
CD2, Secondary Sonographer, Primary Reader, immediate read…….CD2_SSPR_IM
CD2, Secondary Sonographer, Secondary Reader, immediate read….CD2_SSSR_IM

A2. Echo Core Lab Identifier ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
REMOVED

A3. Date of echocardiogram ___ ___ / ___ ___ / ___ ___ ___ ___
REMOVED AGE_ECHO_D M M D D Y Y Y Y

A4. Measurer Identification Number ___
REMOVED

A5. Date of central reading ___ ___ / ___ ___ / ___ ___ ___ ___
REMOVED M M D D Y Y Y Y

A6. Acceptable for analysis YES .....1 (**A7**) NO…….2 ACPTECHO

Section B: CLINICAL ASSESSMENT

B1. Blood Pressure

a. Systolic blood pressure ___ ___ ___ mmHg CSBP
b. Diastolic blood pressure ___ ___ ___ mmHg CDBP
c. Mean blood pressure ___ ___ ___ mmHg CMBP

Section C: LEFT VENTRICULAR FUNCTION (continued)

Two-D			a. Beat 1	b. Beat 2	c. Beat 3
C49.	Heart rate (beats/minute) [Modified Simpsons] CHRATEMS_AVG		___ ___ ___ CHRATEMS1	___ ___ ___ CHRATEMS2	___ ___ ___ CHRATEMS3
C50.	Stroke volume [Modified Simpsons] CSTRKVMS_AVG		___ ___ ___ . ___ CSTRKVMS1	___ ___ ___ . ___ CSTRKVMS2	___ ___ ___ . ___ CSTRKVMS3
C51.	Cardiac output (L/min) [Modified Simpsons] CCOUTSM_AVG		___ ___ . ___ ___ CCOUTSM1	___ ___ . ___ ___ CCOUTSM2	___ ___ . ___ ___ CCOUTSM3
C52.	Cardiac index (L/min/m^2) [Modified Simpsons] CCINDMS_AVG		___ ___ . ___ ___ CCINDMS1	___ ___ . ___ ___ CCINDMS2	___ ___ . ___ ___ CCINDMS3
C53.	Systemic resistance (mmHg/L/min) [Modified Simpsons] CSYSRSMS_AVG		___ ___ ___ . ___ ___ CSYSRSMS1	___ ___ ___ . ___ ___ CSYSRSMS2	___ ___ ___ . ___ ___ CSYSRSMS3
C54.	Sphericity index CSPHER_AVG CSPHER_Z		___ . ___ ___ CSPHER1	___ . ___ ___ CSPHER2	___ . ___ ___ CSPHER3
C55.	Eccentricity index CECCEN_AVG		___ . ___ ___ CECCEN2	___ . ___ ___ CECCEN2	___ . ___ ___ CECCEN3
C56.	Shortening fraction (%) [m-mode] CSHRTFMM_AVG CSHRTFMM_Z		___ ___ . ___ CSHRTFMM1	___ ___ . ___ CSHRTFMM2	___ ___ . ___ CSHRTFMM3
C57.	Shortening fraction (%) [two-D] CSHRTF2D_AVG CSHRTF2D_Z		___ ___ . ___ CSHRTF2D1	___ ___ . ___ CSHRTF2D2	___ ___ . ___ CSHRTF2D3
C58.	Velocity of fiber shortening (circ/s) [m-mode] CVFSMM_AVG CVFSMM_Z		___ ___ . ___ CVFSMM1	___ ___ . ___ CVFSMM2	___ ___ . ___ CVFSMM3
C59.	Velocity of fiber shortening (circ/s) [two-D] CVFS2D_AVG CVFS2D_Z		___ ___ . ___ CVFS2D1	___ ___ . ___ CVFS2D2	___ ___ . __ CVFS2D3 _
C60.	Ejection fraction (%) [5/6*area*length] CEJFRA_AVG CEJFRA_Z		___ ___ . ___ CEJFRA1	___ ___ . ___ CEJFRA2	___ ___ . ___ CEJFRA3
C61.	Ejection fraction (%) [Biapical Simpsons] CEJFRABS_AVG		___ ___ . ___ CEJFRABS1	___ ___ . ___ CEJFRABS2	___ ___ . ___ CEJFRABS3
C62.	Ejection fraction (%) [Modified Simpsons] CEJFRAMS_AVG		___ ___ . ___ CEJFRAMS1	___ ___ . ___ CEJFRAMS2	___ ___ . ___ CEJFRAMS3

C63.	End-systolic stress (gm/cm^2) [m-mode] CESSTRMM_AVG CESSTRMM_Z		___ ___ ___ . ___ CESSTRMM1	___ ___ ___ . ___ CESSTRMM2	___ ___ ___ . ___ CESSTRMM3
C64.	End-systolic stress (gm/cm^2) [5/6*area*length] CESSTR_AVG		___ ___ ___ . ___ CESSTR1	___ ___ ___ . ___ CESSTR2	___ ___ ___ . ___ CESSTR3
C65.	End-systolic stress (gm/cm^2) [Biapical Simpsons] CESSTRBS_AVG		___ ___ ___ . ___ CESSTRBS1	___ ___ ___ . ___ CESSTRBS2	___ ___ ___ . ___ CESSTRBS3
C66.	End-systolic stress (gm/cm^2) [Modified Simpsons CESSTRMS_AVG		___ ___ ___ . ___ CESSTRMS1	___ ___ ___ . ___ CESSTRMS2	___ ___ ___ . ___ CESSTRMS3
C67.	End-systolic fiberstress (gm/cm^2) [m-mode] CESFSMM_AVG CESFSMM_Z		___ ___ ___ . ___ CESFSMM1	___ ___ ___ . ___ CESFSMM2	___ ___ ___ . ___ CESFSMM3
C68.	End-systolic fiberstress (gm/cm^2) [5/6*area*length] CESFS_AVG		___ ___ ___ . ___ CESFS1	___ ___ ___ . ___ CESFS2	___ ___ ___ . ___ CESFS3
C69.	End-systolic fiberstress (gm/cm^2) [Biapical Simpsons] CESFSBS_AVG		___ ___ ___ . ___ CESFSBS1	___ ___ ___ . ___ CESFSBS2	___ ___ ___ . ___ CESFSBS3
C70.	End-systolic fiberstress (gm/cm^2) [Modified Simpsons] CESFSMS_AVG		___ ___ ___ . ___ CESFSMS1	___ ___ ___ . ___ CESFSMS2	___ ___ ___ . ___ CESFSMS3

CONTINUE TO FORM V307: ECHOCARDIOGRAPHY CORE LABORATORY (PART 3)

Section A: KEY IDENTIFYING INFORMATION

A1. Echocardiogram Identification Number ___ ___ - ___ ___ ___ ___ ___ ___ - ___
REMOVED BLIND_ID

<Created variable> Study visit VISIT

BASELINE..... VSCR
FOLLOW-UP VISIT 1 ..... .VFV1
FOLLOW-UP VISIT 2 ..... VFV2
FOLLOW-UP VISIT 3 ..... VFV3
FOLLOW-UP VISIT 4 ..... VFV4

<Created variable> Indicator of acquisition, sonographer, reader and time of reading ITEMCODE

CD1, Primary Sonographer, Primary Reader, immediate read……CD1_PSPR_IM
CD1, Primary Sonographer, Primary Reader, 4-week read……CD1_PSPR_4W
CD1, Primary Sonographer, Primary Reader, 1-year read……..CD1_PSPR_IY
CD1, Primary Sonographer, Secondary Reader, immediate read……..CD1_PSSR_IM
CD2, Secondary Sonographer, Primary Reader, immediate read…….....CD2_SSPR_IM
CD2, Secondary Sonographer, Secondary Reader, immediate read….CD2_SSSR_IM

A2. Echo Core Lab Identifier ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
REMOVED

A3. Date of echocardiogram ___ ___ / ___ ___ / ___ ___ ___ ___
REMOVED AGE_ECHO_D M M D D Y Y Y Y

A4. Measurer Identification Number ___
REMOVED

A5. Date of central reading ___ ___ / ___ ___ / ___ ___ ___ ___
REMOVED M M D D Y Y Y Y

A6. Acceptable for analysis YES..... 1 (**A7**) NO…….2 ACPTECHO

Section B: CLINICAL ASSESSMENT

B1. Blood Pressure

a. Systolic blood pressure ___ ___ ___ mmHg CSBP
b. Diastolic blood pressure ___ ___ ___ mmHg CDBP
c. Mean blood pressure ___ ___ ___ mmHg CMBP

Section D: AORTIC VALVE

			a. Beat 1	b. Beat 2	c. Beat 3
D1.	Aortic annulus diameter (cm) CAVANDIA_AVG CAVANDIA_Z		___ . ___ ___ CAVANDIA1	___ . ___ ___ CAVANDIA2	___ . ___ ___ CAVANDIA3
D2.	Aortic annulus area (cm^2) CAVANAR_AVG CAVANAR_Z		___ ___ . ___ ___ CAVANAR1	___ ___ . ___ ___ CAVANAR2	___ ___ . ___ ___ CAVANAR3
D3.	Ejection time (msec) [m-mode] CAVEJMM_AVG		___ ___ ___ CAVEJMM1	___ ___ ___ CAVEJMM2	___ ___ ___ CAVEJMM3
D4.	M-mode R-R interval (msec) CAVMMRRI_AVG		___ ___ ___ ___ CAVMMRRI1	___ ___ ___ ___ CAVMMRRI2	___ ___ ___ ___ CAVMMRRI3
D5.	M-mode heart rate (beats/min) CAVMMHR_AVG		___ ___ ___ CAVMMHR1	___ ___ ___ CAVMMHR2	___ ___ ___ CAVMMHR3
D6.	Ejection time (msec) [Doppler] CAVEJDP_AVG		___ ___ ___ CAVEJDP1	___ ___ ___ CAVEJDP2	___ ___ ___ CAVEJDP3
D7.	Doppler R-R interval (msec) CAVDPRRI_AVG		___ ___ ___ ___ CAVDPRRI1	___ ___ ___ ___ CAVDPRRI2	___ ___ ___ ___ CAVDPRRI3
D8.	Doppler heart rate (beats/min) CAVDPHR_AVG		___ ___ ___ CAVDPHR1	___ ___ ___ CAVDPHR2	___ ___ ___ CAVDPHR3
D9.	Peak velocity (m/sec) CAVPKVEL_AVG		___ . ___ ___ CAVPKVEL1	___ . ___ ___ CAVPKVEL2	___ . ___ ___ CAVPKVEL3
D10.	Mean velocity (m/sec) CAVMNVEL_AVG		___ . ___ ___ CAVMNVEL1	___ . ___ ___ CAVMNVEL2	___ . ___ ___ CAVMNVEL3
D11.	Time-velocity integral (cm) CAVTVINTCM_AVG		___ ___ ___ . ___ ___ CAVTVINTCM1	___ ___ ___ . ___ ___ CAVTVINTCM2	___ ___ ___ . ___ ___ CAVTVINTCM3
D12.	Aortic stroke volume (mL) CAVSTRKV_AVG		___ ___ ___ . ___ CAVSTRKV1	___ ___ ___ . ___ CAVSTRKV2	___ ___ ___ . ___ CAVSTRKV3
D13.	Aortic cardiac output (L/min) CAVCOUT_AVG		___ ___ . ___ ___ CAVCOUT1	___ ___ . ___ ___ CAVCOUT2	___ ___ . ___ ___ CAVCOUT3
D14.	Aortic cardiac index (L/min/m^2) CAVCIND_AVG		___ ___ . ___ ___ CAVCIND1	___ ___ . ___ ___ CAVCIND2	___ ___ . ___ ___ CAVCIND3
D15.	Systemic resistance (mmHg/L/min) CAVSYSRS_AVG		__ __ __ . __ __ CAVSYSRS1	__ __ __ . __ __ CAVSYSRS2	__ __ __ . __ __ CAVSYSRS3

Section E: MITRAL VALVE

			a. Beat 1	b. Beat 2	c. Beat 3
E1.	R-R interval (msec) [m-mode] CMVRRINT_AVG		___ ___ ___ ___ CMVRRINT	___ ___ ___ ___ CMVRRINT	___ ___ ___ ___ CMVRRINT
E2.	Onset of ICT to end of IRT (msec) [mitral valve m-mode] CMVICTMM_AVG		___ ___ ___ CMVICTMM	___ ___ ___ CMVICTMM	___ ___ ___ CMVICTMM
E3.	Inflow summation wave present		YES ..... 1 NO 2 CMVINSUM1	YES ..... 1 NO 2 CMVINSUM3	YES .....1 NO.....2 CMVINSUM3

			a. Beat 1	b. Beat 2	c. Beat 3
E4.	Peak early velocity (m/sec) CMVPEVEL_AVG CMVPEVEL_Z		**If E3a = 1 (YES), SKIP E4a, E5a, E6a, E7a** ___ . ___ ___ CMVPEVEL1	**If E3b = 1 (YES), SKIP E4b, E5b, E6b, E7b** ___ . ___ ___ CMVPEVEL2	**If E3c = 1 (YES), SKIP E4c, E5c, E6c, E7c** ___ . ___ ___ CMVPEVEL3
E5.	Peak atrial velocity (m/sec) CMVPAVEL_AVG CMVPAVEL_Z		___ . ___ ___ CMVPAVEL	___ . ___ ___ CMVPAVEL	___ . ___ ___ CMVPAVEL
E6.	Early deceleration time (msec) CMVEDCL_AVG CMVEDCL_Z		___ ___ ___ ___ CMVEDCL1	___ ___ ___ ___ CMVEDCL2	___ ___ ___ ___ CMVEDCL3
E7.	A-wave duration (msec) CMVAWAVE_AVG CMVAWAVE_Z		___ ___ ___ CMVAWAVE1	___ ___ ___ CMVAWAVE2	___ ___ ___ CMVAWAVE3
E8.	Peak summation wave velocity (m/sec) CMVPKSUM_AVG		**If E3a = 2 (NO), SKIP E8a** ___ . ___ ___ CMVPKSUM1	**If E3b = 2 (NO), SKIP E8b** ___ . ___ ___ CMVPKSUM2	**If E3c = 2 (NO), SKIP E8c** ___ . ___ ___ CMVPKSUM3
E9.	Onset of ICT to end of IRT (msec) [Doppler] CMVICTDP_AVG		___ ___ ___ CMVICTDP1	___ ___ ___ CMVICTDP2	___ ___ ___ CMVICTDP3
E10.	Mitral regurgitation jet sample recorded?		YES .....1 NO .....2 (**E12a**) CMVREGUR		
E11.	Time interval between MR velocity of 1 and 3 m/sec (msec) CMVINT_AVG		___ ___ ___ CMVINT1	___ ___ ___ CMVINT2	___ ___ ___ CMVINT3
E12.	Early velocity/Atrial velocity CMVEVAV_AVG CMVEVAV_Z		**If E3a = 1 (YES), SKIP E12a** ___ ___ . ___ ___ CMVEVAV1	**If E3b = 1 (YES), SKIP E12b** ___ ___ . ___ ___ CMVEVAV2	**If E3c = 1 (YES), SKIP E12c** ___ ___ . ___ ___ CMVEVAV3
E13.	Left ventricular flow propagation velocity (cm/sec) CMVLVFLW_AVG CMVLVFLW_Z		___ ___ ___ . ___ CMVLVFLW1	___ ___ ___ . ___ CMVLVFLW2	___ ___ ___ . ___ CMVLVFLW3

Section F: MITRAL PLUS AORTIC DOPPLER IN OUTFLOW TRACT

			a. Beat 1	b. Beat 2	c. Beat 3
F1.	Ejection time (msec) [Doppler] CMADEJCT_AVG		___ ___ ___ CMADEJCT1	___ ___ ___ CMADEJCT2	___ ___ ___ CMADEJCT3
F2.	Onset of ICT to end of IRT (msec) [Doppler] CMADICT_AVG		___ ___ ___ CMADICT1	___ ___ ___ CMADICT2	___ ___ ___ CMADICT3

F3.	R-R interval (msec) CMADRINT_AVG		___ ___ ___ ___ CMADRINT1	___ ___ ___ ___ CMADRINT2	___ ___ ___ ___ CMADRINT3
F4.	Heart rate (beats/min) CMAHRATE_AVG		___ ___ ___ CMAHRATE1	___ ___ ___ CMAHRATE2	___ ___ ___ CMAHRATE3
F5.	Tei index (Simultaneous Doppler) CMATEISED_AVG		___ . ___ ___ CMATEISED1	___ . ___ ___ CMATEISED2	___ . ___ ___ CMATEISED3
F6.	Tei index (Separate Doppler) CMATEISID_AVG		___ . ___ ___ CMATEISID1	___ . ___ ___ CMATEISID2	___ . ___ ___ CMATEISID3
F7.	Tei index [m-mode] CMATEIMM_AVG		___ . ___ ___ CMATEIMM1	___ . ___ ___ CMATEIMM2	___ . ___ ___ CMATEIMM3

Section G: PULMONARY VEIN DOPPLER

			a. Beat 1	b. Beat 2	c. Beat 3
G1.	Duration of flow reversal during atrial systole (msec) CPVFLWRV_AVG CPVFLWRV_Z		___ ___ ___ CPVFLWRV1	___ ___ ___ CPVFLWRV2	___ ___ ___ CPVFLWRV3

Section H: TISSUE DOPPLER

			a. Beat 1	b. Beat 2	c. Beat 3
Left lateral atrioventricular valve annulus velocity					
H1.	R-R interval (msec) CLLRINT_AVG		___ ___ ___ ___ CLLRINT1	___ ___ ___ ___ CLLRINT2	___ ___ ___ ___ CLLRINT3
H2.	Heart rate (beats/min) CLLHRATE_AVG		___ ___ ___ CLLHRATE1	___ ___ ___ CLLHRATE2	___ ___ ___ CLLHRATE3
H3.	Isovolumic contraction acceleration (cm/sec/sec) CLLISO_AVG CLLISO_Z		___ ___ ___ ___ CLLISO1	___ ___ ___ ___ CLLISO2	___ ___ ___ ___ CLLISO3
H4.	Summation wave present		YES..... 1 NO..... 2 CLLSUMWAV1	YES.....1 NO 2 CLLSUMWAV2	YES..... 1 NO..... 2 CLLSUMWAV3
H5.	Peak early diastolic velocity (cm/sec) CLLPEDV_AVG CLLPEDV_Z		**If H4a = 1 (YES), SKIP H5a, H6a** ___ ___ . ___ CLLPEDV1	**If H4b = 1 (YES), SKIP H5b, H6b** ___ ___ . ___ CLLPEDV2	**If H4c = 1 (YES), SKIP H5c, H6c** ___ ___ . ___ CLLPEDV3
H6.	Peak atrial diastolic velocity (cm/sec) CLLPADV_AVG CLLPADV_Z		___ ___ . ___ CLLPADV1	___ ___ . ___ CLLPADV2	___ ___ . ___ CLLPADV3
H7.	Peak diastolic summation wave velocity (cm/sec) CLLPKSWV_AVG		**If H4a = 2 (NO), SKIP H7a** ___ ___ . ___ CLLPKSWV1	**If H4b = 2 (NO), SKIP H7b** ___ ___ . ___ CLLPKSWV2	**If H4c = 2 (NO), SKIP H7c** ___ ___ . ___ CLLPKSWV3
H8.	Peak systolic velocity (cm/sec) CLLPKSV_AVG CLLPKSV_Z		___ ___ . ___ CLLPKSV1	___ ___ . ___ CLLPKSV2	___ ___ . ___ CLLPKSV3
H9.	Ejection time (msec) CLLEJCT_AVG		___ ___ ___ CLLEJCT1	___ ___ ___ CLLEJCT2	___ ___ ___ CLLEJCT3
H10.	Onset of ICT to end of IRT (msec) CLLICT_AVG		___ ___ ___ CLLICT1	___ ___ ___ CLLICT2	___ ___ ___ CLLICT3
H11.	Tei index CLLTEI_AVG		___ . ___ ___ CLLTEI1	___ . ___ ___ CLLTEI2	___ . ___ ___ CLLTEI3
H12.	Early velocity/Atrial velocity CLLEVAV_AVG CLLEVAV_Z		**If H4a = 1 (YES), SKIP H12a** __ __ . __ __ CLLEVAV1	**If H4b = 1 (YES), SKIP H12b** __ __ . __ __ CLLEVAV2	**If H4c = 1 (YES), SKIP H12c** __ __ . __ __ CLLEVAV3
Septal atrioventricular valve annulus velocity					
H13.	R-R interval (msec) CSVRINT_AVG		___ ___ ___ ___ CSVRINT1	___ ___ ___ ___ CSVRINT2	___ ___ ___ ___ CSVRINT3
H14.	Heart rate (beats/min) CSVHRATE_AVG		___ ___ ___ CSVHRATE1	___ ___ ___ CSVHRATE2	___ ___ ___ CSVHRATE3

			a. Beat 1	b. Beat 2	c. Beat 3
H15.	Isovolumic contraction acceleration (cm/sec/sec) CSVISO_AVG CSVISO_Z		___ ___ ___ ___ CSVISO1	___ ___ ___ ___ CSVISO2	___ ___ ___ ___ CSVISO3
H16.	Summation wave present		YES.....1 NO.....2 CSVSUMWAV1	YES.....1 NO.....2 CSVSUMWAV2	YES.....1 NO 2 CSVSUMWAV3
H17.	Peak early diastolic velocity (cm/sec) CSVPEDV_AVG CSVPEDV_Z		**If H16a = 1 (YES), SKIP H17a, H18a** ___ ___ . ___ CSVPEDV1	**If H16b = 1 (YES), SKIP H17b, H18b** ___ ___ . ___ CSVPEDV2	**If H16c = 1 (YES), SKIP H17c, H18c** ___ ___ . ___ CSVPEDV3
H18.	Peak atrial diastolic velocity (cm/sec) CSVPADV_AVG CSVPADV_Z		___ ___ . ___ CSVPADV1	___ ___ . ___ CSVPADV2	___ ___ . ___ CSVPADV3
H19.	Peak diastolic summation wave velocity (cm/sec) CSVPKSWV_AVG		**If H16a = 2 (NO), SKIP H19a** ___ ___ . ___ CSVPKSWV1	**If H16b = 2 (NO), SKIP H19b** ___ ___ . ___ CSVPKSWV2	**If H16c = 2 (NO), SKIP H19c** ___ ___ . ___ CSVPKSWV3
H20.	Peak systolic velocity (cm/sec) CSVPKSV_AVG CSVPKSV_Z		___ ___ . ___ CSVPKSV1	___ ___ . ___ CSVPKSV2	___ ___ . ___ CSVPKSV3
H21.	Ejection time (msec) CSVEJCT_AVG		___ ___ ___ CSVEJCT1	___ ___ ___ CSVEJCT2	___ ___ ___ CSVEJCT3
H22.	Onset of ICT to end of IRT (msec) CSVICT_AVG		___ ___ ___ CSVICT1	___ ___ ___ CSVICT2	___ ___ ___ CSVICT3
H23.	Tei index CSVTEI_AVG		___ . ___ ___ CSVTEI1	___ . ___ ___ CSVTEI2	___ . ___ ___ CSVTEI3
H24.	Early velocity/Atrial velocity CSVEVAV_AVG CSVEVAV_Z		**If H16a = 1 (YES), SKIP H24a** __ __ . __ __ CSVEVAV1	**If H16b = 1 (YES), SKIP H24b** __ __ . __ __ CSVEVAV2	**If H16c = 1 (YES), SKIP H24c** __ __ . __ __ CSVEVAV3
Right lateral atrioventricular valve annulus velocity					
H25.	R-R interval (msec) CRLRINT_AVG		___ ___ ___ ___ CRLRINT1	___ ___ ___ ___ CRLRINT2	___ ___ ___ ___ CRLRINT3
H26.	Heart rate (beats/min) CRLHRATE_AVG		___ ___ ___ CRLHRATE1	___ ___ ___ CRLHRATE2	___ ___ ___ CRLHRATE3
H27.	Isovolumic contraction acceleration (cm/sec/sec) CRLISO_AVG CRLISO_Z		___ ___ ___ ___ CRLISO1	___ ___ ___ ___ CRLISO2	___ ___ ___ ___ CRLISO3
H28.	Summation wave present		YES .....1 NO.....2 CRLSUMWAV1	YES .....1 NO.....2 CRLSUMWAV2	YES.....1 NO.....2 CRLSUMWAV3

			a. Beat 1	b. Beat 2	c. Beat 3
H29.	Peak early diastolic velocity (cm/sec) CRLPEDV_AVG CRLPEDV_Z		**If H28a = 1 (YES), SKIP H29a, H30a** ___ ___ . ___ CRLPEDV1	**If H28b = 1 (YES), SKIP H29b, H30b** ___ ___ . ___ CRLPEDV2	**If H28c = 1 (YES), SKIP H29c, H30c** ___ ___ . ___ CRLPEDV3
H30.	Peak atrial diastolic velocity (cm/sec) CRLPADV_AVG CRLPADV_Z		___ ___ . ___ CRLPADV1	___ ___ . ___ CRLPADV2	___ ___ . ___ CRLPADV3
H31.	Peak diastolic summation wave velocity (cm/sec) CRLPKSWV_AVG		**If H28a = 2 (NO), SKIP H31a** ___ ___ . ___ CRLPKSWV1	**If H28b = 2 (NO), SKIP H31b** ___ ___ . ___ CRLPKSWV2	**If H28c = 2 (NO), SKIP H31c** ___ ___ . ___ CRLPKSWV3
H32.	Peak systolic velocity (cm/sec) CRLPKSV_AVG CRLPKSV_Z		___ ___ . ___ CRLPKSV1	___ ___ . ___ CRLPKSV2	___ ___ . ___ CRLPKSV3
H33.	Ejection time (msec) CRLEJCT_AVG		___ ___ ___ CRLEJCT1	___ ___ ___ CRLEJCT2	___ ___ ___ CRLEJCT3
H34.	Onset of ICT to end of IRT (msec) CRLICT_AVG		___ ___ ___ CRLICT1	___ ___ ___ CRLICT2	___ ___ ___ CRLICT3
H35.	Tei index CRLTEI_AVG		___ . ___ ___ CRLTEI1	___ . ___ ___ CRLTEI2	___ . ___ ___ CRLTEI3
H36.	Early velocity/Atrial velocity CRLEVAV_AVG CRLEVAV_Z		**If H28a = 1 (YES), SKIP H36a** ___ ___ . ___ ___ CRLEVAV1	**If H28b = 1 (YES), SKIP H36b** ___ ___ . ___ ___ CRLEVAV2	**If H28c = 1 (YES), SKIP H36c** ___ ___ . ___ ___ CRLEVAV3

Created variables			a. Beat 1	b. Beat 2	c. Beat 3
	Left ventricular free wall E/E' CEELVFW_AVG CEELVFW_Z		CEELVFW1	CEELVFW2	CEELVFW3
	Septal E/E' CEESEPTUM_AVG CEESEPTUM_Z		CEESEPTUM1	CEESEPTUM2	CEESEPTUM3
	Average of sepal and left free wall E/E' CEEAVG_AVG CEEAVG_Z		CEEAVG1	CEEAVG2	CEEAVG3

CONTINUE TO FORM V308: ECHOCARDIOGRAPHY CORE LABORATORY (PART 4)

Section A: KEY IDENTIFYING INFORMATION

A1. Echocardiogram Identification Number ___ ___ - ___ ___ ___ ___ ___ ___ - ___
REMOVED BLIND_ID

<Created variable> Study visit VISIT
BASELINE..... VSCR
FOLLOW-UP VISIT 1 ..... .VFV1
FOLLOW-UP VISIT 2 ..... VFV2
FOLLOW-UP VISIT 3 ..... VFV3
FOLLOW-UP VISIT 4 ..... VFV4

<Created variable> Indicator of acquisition, sonographer, reader and time of reading ITEMCODE
CD1, Primary Sonographer, Primary Reader, immediate read……CD1_PSPR_IM
CD1, Primary Sonographer, Primary Reader, 4-week read……CD1_PSPR_4W
CD1, Primary Sonographer, Primary Reader, 1-year read……..CD1_PSPR_IY
CD1, Primary Sonographer, Secondary Reader, immediate read……..CD1_PSSR_IM
CD2, Secondary Sonographer, Primary Reader, immediate read…….....CD2_SSPR_IM
CD2, Secondary Sonographer, Secondary Reader, immediate read….CD2_SSSR_IM

A2. Echo Core Lab Identifier ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
REMOVED

A3. Date of echocardiogram ___ ___ / ___ ___ / ___ ___ ___ ___
REMOVED AGE_ECHO_D M M D D Y Y Y Y

A4. Measurer Identification Number ___
REMOVED

A5. Date of central reading ___ ___ / ___ ___ / ___ ___ ___ ___
REMOVED M M D D Y Y Y Y

A6. Acceptable for analysis YES ..... 1 (**A7**) NO…….2 ACPTECHO

Section B: CLINICAL ASSESSMENT

B1. Blood Pressure

a. Systolic blood pressure ___ ___ ___ mmHg CSBP
b. Diastolic blood pressure ___ ___ ___ mmHg CDBP
c. Mean blood pressure ___ ___ ___ mmHg CMBP

Section H: TISSUE DOPPLER - continued

			a. Beat 1	b. Beat 2	c. Beat 3
Left lateral atrioventricular valve annulus velocity					
H37.	Time interval from QRS interval to onset of systolic wave (msec) CLLQRSONS_AVG CLLQRSONS_Z		___ ___ ___ CLLQRSONS1	___ ___ ___ CLLQRSONS2	___ ___ ___ CLLQRSONS3
H38.	Time interval from QRS interval to peak velocity of systolic wave (msec) CLLQRSPK_AVG CLLQRSPK_Z		___ ___ ___ CLLQRSPK1	___ ___ ___ CLLQRSPK2	___ ___ ___ CLLQRSPK3
Septal atrioventricular valve annulus velocity					
H39.	Time interval from QRS interval to onset of systolic wave (msec) CSQRSONS_AVG		___ ___ ___ CSQRSONS1	___ ___ ___ CSQRSONS2	___ ___ ___ CSQRSONS3
H40.	Time interval from QRS interval to peak velocity of systolic wave (msec) CSQRSPK_AVG		___ ___ ___ CSQRSPK1	___ ___ ___ CSQRSPK2	___ ___ ___ CSQRSPK3
Right lateral atrioventricular valve annulus velocity					
H41.	Time interval from QRS interval to onset of systolic wave (msec) CRLQRSONS_AVG		___ ___ ___ CRLQRSONS1	___ ___ ___ CRLQRSONS2	___ ___ ___ CRLQRSONS3
H42.	Time interval from QRS interval to peak velocity of systolic wave (msec) CRLQRSONS_AVG		___ ___ ___ CRLQRSONS1	___ ___ ___ CRLQRSONS2	___ ___ ___ CRLQRSONS3