

## ***Echo Z Data Codebook***

DATE CREATED: Aug28,2023  
Number of Observations: 3215  
Number of Variables: 92

## Echo Z Data Codebook

FileName	Variable_label	Variable_Name	Category	N_Percent	Mean_SD	Median_Q1_Q3	Range
echo_zscores_phn	Blind_id	Blind_id		3215(100)			
echo_zscores_phn	Blinded_SiteID	Blinded_SiteID		3215(100)			
echo_zscores_phn	2. Sex:	SEX	Female	1562(48.6)			
echo_zscores_phn	2. Sex:	SEX	Male	1653(51.4)			
echo_zscores_phn	3. Ethnicity	ETHNICITY	Hispanic or Latino/Latina	793(24.7)			
echo_zscores_phn	3. Ethnicity	ETHNICITY	Not Hispanic or Latino/Latina	2260(70.3)			
echo_zscores_phn	3. Ethnicity	ETHNICITY	Unknown	162(5)			
echo_zscores_phn		race	1	1117(34.7)			
echo_zscores_phn		race	2	1004(31.2)			
echo_zscores_phn		race	3	1094(34)			
echo_zscores_phn		age_group	1	508(15.8)			
echo_zscores_phn		age_group	2	525(16.3)			
echo_zscores_phn		age_group	3	516(16)			
echo_zscores_phn		age_group	4	592(18.4)			
echo_zscores_phn		age_group	5	579(18)			
echo_zscores_phn		age_group	6	495(15.4)			

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FileName	Variable_label	Variable_Name	Category	N_Percent	Mean_SD	Median_Q1_Q3	Range
echo_zscores_phn	B1. Proximal transverse arch diameter (cm)	AAPTAD		2555(79)	1.46(0.6)	1.5(0.9,1.9)	0.4,2.9
echo_zscores_phn	B2. Distal transverse arch diameter (cm)	AADTAD		3106(97)	1.27(0.5)	1.3(0.8,1.7)	0.4,2.6
echo_zscores_phn	C1. AoV Annulus diameter (cm)	ARAVAD		3215(100)	1.39(0.5)	1.4(1,1.8)	0.4,2.7
echo_zscores_phn	C2. Ao Root diameter (cm)	ARARD		3215(100)	1.92(0.7)	2(1.3,2.5)	0.7,3.9
echo_zscores_phn	C3. Ao Sinotubular junction diameter (cm)	ARASJD		3215(100)	1.58(0.6)	1.6(1.1,2)	0.5,3.2
echo_zscores_phn	C4. Ascending Ao diameter (cm)	AR_AAD		3214(100)	1.66(0.6)	1.7(1.1,2.1)	0.6,3.4
echo_zscores_phn	D1. Proximal right (mm)	CAPR		2912(91)	2.17(0.8)	2.1(1.5,2.7)	0.6,5.5
echo_zscores_phn	D2. Left anterior descending (mm)	CALAD		2508(78)	1.77(0.6)	1.8(1.3,2.2)	0.5,4
echo_zscores_phn	D3. Left main coronary artery (mm)	CALMCA		2893(90)	2.76(1)	2.7(2,3.4)	0.9,6.3
echo_zscores_phn	E1. LVSWd (cm)	LVSWD		3215(100)	0.54(0.2)	0.5(0.4,0.7)	0.2,1.2
echo_zscores_phn	E2. LVEDDd (cm)	LVEDDD		3215(100)	3.63(1.1)	3.8(2.6,4.5)	1.2,6.2
echo_zscores_phn	E3. LVPWDd (cm)	LVPWDD		3215(100)	0.53(0.2)	0.5(0.4,0.6)	0.2,1.1
echo_zscores_phn	E4. LVESD (cm)	LVESD		3215(100)	2.46(0.8)	2.5(1.8,3.1)	0.7,4.7
echo_zscores_phn	E5. LVEDA (cm <sup>2</sup> )	LVEDA		3215(100)	11.38(6.4)	11.1(5.3,16.5)	1.4,32.9
echo_zscores_phn	E6. LVESA (cm <sup>2</sup> )	LVESA		3215(100)	6.01(3.4)	5.7(2.8,8.6)	0.7,17.7
echo_zscores_phn	E7. LVEDAepi (cm <sup>2</sup> )	LVEDA_EPI		3215(100)	18.94(10.4)	18(9,27.4)	2.7,55.4

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FileName	Variable_label	Variable_Name	Category	N_Percent	Mean_SD	Median_Q1_Q3	Range
echo_zscores_phn	F1. LVEDL (cm)	LVEDL		3215(100)	5.91(1.9)	6(4.2,7.5)	2.3,10.1
echo_zscores_phn	F2. LVEDLepi (cm)	LVEDL_EPI		3215(100)	6.42(2)	6.5(4.6,8.1)	2.6,11
echo_zscores_phn	F3. LVESL (cm)	LVESL		3215(100)	4.63(1.5)	4.6(3.3,5.9)	1.6,8.7
echo_zscores_phn	G1. MV Anteroposterior valve diameter (cm)	MVAVD		3215(100)	2.14(0.7)	2.2(1.5,2.7)	0.7,4
echo_zscores_phn	G2. MV Lateral annulus diameter (cm)	MVLAD		3214(100)	2.06(0.7)	2.1(1.5,2.6)	0.7,3.9
echo_zscores_phn	H1. Main pulmonary artery (cm)	MPA		3006(93)	1.66(0.6)	1.7(1.1,2.1)	0.5,3.3
echo_zscores_phn	H2. Right pulmonary artery (cm)	RPA		2983(93)	0.99(0.4)	1(0.7,1.3)	0.2,2.1
echo_zscores_phn	H3. Left pulmonary artery (cm)	LPA		2868(89)	1.01(0.4)	1.1(0.7,1.3)	0.3,2.1
echo_zscores_phn	J1. TV Anteroposterior valve diameter (cm)	TVAVD		3215(100)	2.21(0.8)	2.2(1.5,2.8)	0.7,4.5
echo_zscores_phn	J2. TV Lateral annulus diameter (cm)	TVLAD		3214(100)	2.17(0.7)	2.2(1.6,2.7)	0.7,4.4
echo_zscores_phn	I1. Pulmonary valve annulus diameter (cm) - short axis	PVAD_SHORT		2289(71)	1.68(0.6)	1.7(1,2.2)	0.6,3.5
echo_zscores_phn	I2. Pulmonary valve annulus diameter (cm) - long axis	PVAD_LONG		2882(90)	1.91(0.8)	1.9(1.2,2.5)	0.5,4.1
echo_zscores_phn	4. Age at echo in years	ECHO_AGE		3215(99)	7.83(6.3)	6.89(1.16,14.1)	0.01,17.99
echo_zscores_phn	5. Height/Length (cm)	ECHO_HT		3215(100)	117.12(44.8)	120(72.15,160)	43.2,207.2
echo_zscores_phn	6. Weight (kg)	ECHO_WT		3215(100)	30.21(23.5)	22.6(8.75,51.3)	2,122.6
echo_zscores_phn	body mass index	BMI		3215(100)	17.39(3.6)	16.64(14.88,19.71)	6.92,29.05

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FileName	Variable_label	Variable_Name	Category	N_Percent	Mean_SD	Median_Q1_Q3	Range
echo_zscores_phn	body surface area, method=DuBois	BSA_DuBois		3215(100)	0.96(0.6)	0.86(0.4,1.52)	0.15,2.65
echo_zscores_phn	body surface area, method=DreyerRay	BSA_DreyerRay		3215(100)	0.9(0.5)	0.8(0.42,1.38)	0.16,2.47
echo_zscores_phn	body surface area, method=Boyd_1	BSA_Boyd_1		3215(100)	0.37(0.2)	0.36(0.22,0.54)	0.1,0.81
echo_zscores_phn	body surface area, method=Boyd_2	BSA_Boyd_2		3215(100)	0.31(0.1)	0.3(0.18,0.43)	0.09,0.61
echo_zscores_phn	body surface area, method=Haycock	BSA_Haycock		3215(100)	0.97(0.6)	0.86(0.43,1.51)	0.16,2.67
echo_zscores_phn	body surface area, method=GehanGeorge	BSA_GehanGeorge		3215(100)	0.98(0.6)	0.88(0.44,1.52)	0.17,2.66
echo_zscores_phn	body surface area, method=Mosteller	BSA_Mosteller		3215(100)	0.96(0.6)	0.86(0.42,1.51)	0.16,2.66
echo_zscores_phn	Left ventricular shortening fraction	lvsfr		3215(100)	0.32(0.1)	0.32(0.28,0.37)	0.11,0.58
echo_zscores_phn	Left ventricular end-diastolic volume (LVEDV)	LVEDV		3215(100)	65.3(49.2)	55.55(18.48,102.7)	2.8,255.87
echo_zscores_phn	Left ventricular end-diastolic epicardial volume (LVEDVepi)	LVEDVepi		3215(100)	117.94(88.4)	98(34.69,186.68)	6.08,461.67
echo_zscores_phn	Left ventricular end-systolic volume (LVESV)	LVESV		3215(100)	27.19(21.4)	22.1(7.29,42.26)	1.2,104.4
echo_zscores_phn	Left ventricular ejection fraction	lvef		3215(100)	0.58(0.1)	0.58(0.54,0.62)	0.2,0.76
echo_zscores_phn	Left ventricular mass	lvmass		3215(100)	55.27(42)	44.7(17.04,87.33)	0.84,217.03
echo_zscores_phn	mitral annular area	MVA		3214(100)	3.83(2.3)	3.61(1.76,5.51)	0.49,11.04
echo_zscores_phn	tricuspid annular area	TVA		3214(100)	4.16(2.5)	3.8(1.77,5.94)	0.44,13.82
echo_zscores_phn	LV thickness-to-dimension ratio	TTDR		3215(100)	0.15(0)	0.15(0.13,0.17)	0.07,0.31

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FileName	Variable_label	Variable_Name	Category	N_Percent	Mean_SD	Median_Q1_Q3	Range
echo_zscores_phn	LV mass-to-volume ratio	MTVR		3215(100)	0.88(0.2)	0.86(0.77,0.98)	0.1,1.57
echo_zscores_phn	LV sphericity index	SI		3215(100)	1.63(0.2)	1.62(1.51,1.74)	1.08,2.46
echo_zscores_phn	PHN z-score	LVESD_phn_z		3215(100)	0.01(1)	-0.03(-0.67,0.65)	-3.04,4.27
echo_zscores_phn	PHN z-score	LVESV_phn_z		3215(100)	0(1)	-0.07(-0.68,0.63)	-2.85,5
echo_zscores_phn	PHN z-score	MVAVD_phn_z		3215(100)	0(1)	-0.02(-0.66,0.64)	-3.27,4.91
echo_zscores_phn	PHN z-score	MVLAD_phn_z		3214(100)	0(1)	-0.02(-0.67,0.66)	-3.47,4.14
echo_zscores_phn	PHN z-score	MVA_phn_z		3214(100)	0(1)	-0.04(-0.7,0.63)	-2.98,6.68
echo_zscores_phn	PHN z-score	TVAVD_phn_z		3215(100)	-0.01(1)	0(-0.67,0.64)	-3.35,4.03
echo_zscores_phn	PHN z-score	TVLAD_phn_z		3214(100)	0.01(1)	0.01(-0.66,0.67)	-3.16,3.87
echo_zscores_phn	PHN z-score	TVA_phn_z		3214(100)	0(1)	-0.04(-0.68,0.65)	-2.84,4.57
echo_zscores_phn	PHN z-score	ARAVAD_phn_z		3215(100)	0.03(1)	0.05(-0.62,0.67)	-4.01,3.66
echo_zscores_phn	PHN z-score	ARARD_phn_z		3215(100)	0.02(1)	-0.03(-0.66,0.68)	-2.92,4.12
echo_zscores_phn	PHN z-score	ARASJD_phn_z		3215(100)	0.01(1)	-0.01(-0.66,0.62)	-4.66,4.4

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FileName	Variable_label	Variable_Name	Category	N_Percent	Mean_SD	Median_Q1_Q3	Range
echo_zscores_phn	PHN z-score	AR_AAD_phn_z		3214(100)	-0.01(1)	-0.03(-0.7,0.62)	-3.62,4.82
echo_zscores_phn	PHN z-score	AAPTAD_phn_z		2555(79)	0(1)	0(-0.69,0.69)	-3.29,4.92
echo_zscores_phn	PHN z-score	AADTAD_phn_z		3106(97)	-0.03(1)	0.01(-0.67,0.65)	-3.65,4.46
echo_zscores_phn	PHN z-score	AAAID_phn_z		3128(97)	0.01(1)	-0.03(-0.69,0.71)	-3.63,3.99
echo_zscores_phn	PHN z-score	CALMCA_phn_z		2893(90)	-0.01(1)	-0.08(-0.69,0.58)	-2.69,5.46
echo_zscores_phn	PHN z-score	CALAD_phn_z		2508(78)	0.01(1)	-0.03(-0.69,0.68)	-2.65,3.92
echo_zscores_phn	PHN z-score	CAPR_phn_z		2912(91)	-0.01(1)	-0.11(-0.71,0.6)	-2.63,4.95
echo_zscores_phn	PHN z-score	PVAD_SHORT_phn_z		2289(71)	0.01(1)	-0.02(-0.7,0.65)	-3.33,3.48
echo_zscores_phn	PHN z-score	PVAD_LONG_phn_z		2882(90)	0.01(1)	0(-0.68,0.69)	-3.55,3.74
echo_zscores_phn	PHN z-score	MPA_phn_z		3006(93)	0.01(1)	0(-0.67,0.63)	-2.99,3.61
echo_zscores_phn	PHN z-score	RPA_phn_z		2983(93)	0(1)	-0.03(-0.68,0.67)	-3.47,4.72
echo_zscores_phn	PHN z-score	LPA_phn_z		2868(89)	0.02(1)	0.02(-0.63,0.66)	-2.82,6.49

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FileName	Variable_label	Variable_Name	Category	N_Percent	Mean_SD	Median_Q1_Q3	Range
echo_zscores_phn	PHN z-score	LVEDDD_phn_z		3215(100)	0(1)	-0.01(-0.68,0.69)	-4.11,4.32
echo_zscores_phn	PHN z-score	LVPWDD_phn_z		3215(100)	-0.04(1)	-0.13(-0.7,0.54)	-2.91,4.3
echo_zscores_phn	PHN z-score	LVSWD_phn_z		3215(100)	-0.03(1)	-0.13(-0.71,0.65)	-3.02,3.89
echo_zscores_phn	PHN z-score	LVEDL_phn_z		3215(100)	0(1)	0.01(-0.67,0.66)	-4.12,4.58
echo_zscores_phn	PHN z-score	LVEDL_EPI_phn_z		3215(100)	-0.01(1)	-0.03(-0.68,0.68)	-3.75,5.27
echo_zscores_phn	PHN z-score	LVEDA_phn_z		3215(100)	0(1)	-0.05(-0.71,0.66)	-3,6.09
echo_zscores_phn	PHN z-score	LVEDA_EPI_phn_z		3215(100)	0(1)	-0.02(-0.69,0.63)	-3.4,7.52
echo_zscores_phn	PHN z-score	LVEDV_phn_z		3215(100)	0(1)	-0.05(-0.7,0.65)	-3.16,7.81
echo_zscores_phn	PHN z-score	LVEDVepi_phn_z		3215(100)	0(1)	-0.04(-0.67,0.62)	-3.39,9.77
echo_zscores_phn	PHN z-score	lvmass_phn_z		3215(100)	0(1)	-0.07(-0.67,0.59)	-5.08,8.64
echo_zscores_phn	PHN z-score	MTVR_phn_z		3215(100)	0.03(1)	-0.13(-0.68,0.62)	-4.84,4.3
echo_zscores_phn	PHN z-score	TTDR_phn_z		3215(96)	-0.03(1)	-0.24(-0.74,0.56)	-2.56,5.26
echo_zscores_phn	PHN z-score	SI_phn_z		3215(100)	0.02(1)	-0.03(-0.69,0.63)	-3.25,4.89



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