



Echocardiographic Study of Latinos (Echo SOL)

Codebook for Visit 1 Examination

**June 2019
INV version 5.0**

**Prepared by
Echo SOL Coordinating Center
Collaborative Studies Coordinating Center
UNC Department of Biostatistics**

Franklyn Gonzalez II
Matthew Loop

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Echo SOL Study Visit 1 Procedure Data File: FORM CODE=EWF VERSION=A

<i>SBP</i>		<i>Systolic BP mmHg</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1797	Range	89.00 - 211.00 (median=135.00 mean=135.94 std=18.69)
21		Missing

<i>DBP</i>		<i>Diastolic BP mmHg</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1796	Range	47.00 - 127.00 (median=78.00 mean=78.26 std=11.28)
22		Missing

<i>HR</i>		<i>Heart Rate bpm</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1734	Range	41.00 - 108.00 (median=65.00 mean=66.01 std=10.01)
84		Missing

<i>BSA</i>		<i>BSA m2</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1804	Range	0.87 - 2.87 (median=1.81 mean=1.83 std=0.20)
14		Missing

<i>EDV2</i>		<i>EDV(MOD-sp2)ml</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1739	Range	24.76 - 171.97 (median=74.21 mean=77.01 std=22.27)
79		Missing

<i>EDV4</i>		<i>EDV(MOD-sp4)ml</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1785	Range	37.63 - 219.40 (median=81.01 mean=84.39 std=22.83)
33		Missing

<i>EFBP</i>		<i>EF(MOD-bp)%</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1729	Range	17.29 - 95.70 (median=60.72 mean=60.16 std=5.53)
89		Missing

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<i>EF2</i>		<i>EF(MOD-sp2)%</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1739	Range	17.86 - 81.54 (median=61.33 mean=60.83 std=5.88)
79		Missing

<i>EF4</i>		<i>EF(MOD-sp4)%</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1783	Range	15.51 - 83.98 (median=59.98 mean=59.65 std=5.87)
35		Missing

<i>ESV2</i>		<i>ESV(MOD-sp2)ml</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1739	Range	8.92 - 128.52 (median=28.56 mean=30.35 std=10.89)
79		Missing

<i>ESV4</i>		<i>ESV(MOD-sp4)ml</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1783	Range	7.57 - 145.74 (median=32.30 mean=34.36 std=11.99)
35		Missing

<i>FS</i>		<i>Fractional Shortening</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1783	Range	5.76 - 49.78 (median=29.91 mean=30.16 std=5.65)
35		Missing

<i>IVSD</i>		<i>IVSd cm</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1792	Range	0.47 - 1.93 (median=1.04 mean=1.06 std=0.21)
26		Missing

<i>LADIM</i>		<i>LA dim cm</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1772	Range	1.80 - 5.23 (median=3.29 mean=3.30 std=0.46)
46		Missing

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<i>LPA</i>		<i>Lat Peak A' vel cm/sec</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1794	Range	3.68 - 24.83 (median=10.43 mean=10.66 std=2.55)
24		Missing

<i>LPE</i>		<i>Lat Peak E' Vel cm/sec</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1796	Range	2.05 - 19.69 (median=9.19 mean=9.37 std=2.75)
22		Missing

<i>LPS</i>		<i>Lat Peak S Vel cm/sec</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1786	Range	2.88 - 19.55 (median=8.05 mean=8.33 std=2.02)
32		Missing

<i>LAV2</i>		<i>LAV(MOD-sp2)ml</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1738	Range	8.51 - 131.76 (median=41.53 mean=43.55 std=14.73)
80		Missing

<i>LAV4</i>		<i>LAV(MOD-sp4)ml</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1719	Range	11.83 - 123.76 (median=39.34 mean=41.30 std=14.60)
99		Missing

<i>LVIVRT</i>		<i>LV IVRT sec</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1792	Range	0.04 - 0.18 (median=0.09 mean=0.09 std=0.02)
26		Missing

<i>LVMD</i>		<i>LV mass(C)d grams</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1791	Range	60.28 - 469.62 (median=141.72 mean=149.45 std=44.64)
27		Missing

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<i>LVMDL</i>		<i>LV mass(C)dl grams/m2</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1777	Range	35.10 - 185.14 (median=78.62 mean=81.34 std=20.12)
41		Missing

<i>LVVTI</i>		<i>LV V1 VTI cm</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1798	Range	9.36 - 44.79 (median=23.71 mean=23.91 std=4.28)
20		Missing

<i>LVIDD</i>		<i>LVIDd cm</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1793	Range	2.94 - 6.31 (median=4.46 mean=4.49 std=0.49)
25		Missing

<i>LVIDS</i>		<i>LVIDs cm</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1783	Range	1.72 - 5.46 (median=3.09 mean=3.13 std=0.42)
35		Missing

<i>LVAREA</i>		<i>LVOT area cm2</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1802	Range	1.27 - 7.05 (median=2.88 mean=2.94 std=0.65)
16		Missing

<i>LVDIAM</i>		<i>LVOT diam cm</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1802	Range	1.27 - 3.00 (median=1.92 mean=1.92 std=0.21)
16		Missing

<i>LVPWD</i>		<i>LVPWd cm</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1792	Range	0.47 - 1.63 (median=0.86 mean=0.88 std=0.17)
26		Missing

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<i>MPA</i>		<i>Med Peak A' Vel</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1801	Range	4.44 - 18.00 (median=8.97 mean=9.10 std=1.83)
17		Missing

<i>MPE</i>		<i>Med Peak E' Vel</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1803	Range	2.34 - 13.38 (median=6.89 mean=6.96 std=1.84)
15		Missing

<i>MPS</i>		<i>Med Peak S Vel</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1795	Range	2.04 - 13.26 (median=6.69 mean=6.81 std=1.31)
23		Missing

<i>MVAMAX</i>		<i>MV A max vel</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1797	Range	30.11 - 170.71 (median=77.44 mean=78.82 std=17.84)
21		Missing

<i>MVTIME</i>		<i>MV dec time sec</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1785	Range	0.10 - 0.55 (median=0.23 mean=0.24 std=0.05)
33		Missing

<i>MVEMAX</i>		<i>MV E max vel</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1800	Range	33.61 - 183.50 (median=76.01 mean=77.17 std=16.82)
18		Missing

<i>MVE_A</i>		<i>MV E/A</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1797	Range	0.45 - 2.95 (median=0.95 mean=1.02 std=0.29)
21		Missing

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<i>PULMDUR</i>		<i>Pulm A Revs Dur</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1737	Range	0.05 - 0.20 (median=0.10 mean=0.10 std=0.02)
81		Missing

<i>PULMAV</i>		<i>Pulm A Revs Vel</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1732	Range	14.81 - 114.51 (median=27.79 mean=28.82 std=7.09)
86		Missing

<i>PULMDV</i>		<i>Pulm Dias Vel cm/sec</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1738	Range	22.21 - 95.97 (median=41.46 mean=42.81 std=9.72)
80		Missing

<i>PULMS_D</i>		<i>Pulm S/D</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1738	Range	0.48 - 2.88 (median=1.39 mean=1.41 std=0.31)
80		Missing

<i>PULMSV</i>		<i>Pulm Sys Vel cm/sec</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1748	Range	23.04 - 101.19 (median=57.59 mean=58.55 std=11.39)
70		Missing

<i>RVPS</i>		<i>RV Peak S Vel</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1771	Range	3.60 - 25.82 (median=11.76 mean=11.92 std=2.42)
47		Missing

<i>RVVTI</i>		<i>RV V1 VTI cm</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1792	Range	6.81 - 31.33 (median=17.15 mean=17.33 std=3.28)
26		Missing

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<i>RVAD4</i>		<i>RVAd ap4 cm2</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1660	Range	4.84 - 31.88 (median=14.19 mean=14.50 std=3.59)
158		Missing

<i>RVAS4</i>		<i>RVAs ap4 cm2</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1650	Range	2.13 - 20.74 (median=7.71 mean=7.91 std=2.37)
168		Missing

<i>RVAREA</i>		<i>RVOT area cm2</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1787	Range	0.56 - 8.69 (median=2.73 mean=2.82 std=1.02)
31		Missing

<i>RVDIAM</i>		<i>RVOT diam cm</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1787	Range	0.85 - 3.33 (median=1.86 mean=1.86 std=0.34)
31		Missing

<i>LVSV</i>		<i>SV(LVOT)ml</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1788	Range	28.19 - 224.23 (median=67.19 mean=69.60 std=17.58)
30		Missing

<i>RVSV</i>		<i>SV(RVOT)ml</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1772	Range	10.36 - 141.38 (median=46.11 mean=48.15 std=18.22)
46		Missing

<i>TAPSE</i>		<i>TAPSE cm</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1731	Range	0.48 - 3.54 (median=2.09 mean=2.10 std=0.42)
87		Missing

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<i>TRPG</i>		<i>TR max PG mmHG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1720	Range	0.05 - 44.77 (median=18.11 mean=17.53 std=6.88)
98		Missing

<i>TRVEL</i>		<i>TR max vel cm/sec</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1720	Range	11.11 - 334.53 (median=212.77 mean=204.30 std=45.42)
98		Missing

<i>HEIGHT</i>		<i>Height</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1421	Range	122.00 - 193.00 (median=161.00 mean=162.09 std=9.27)
397		Missing

<i>WEIGHT</i>		<i>Weight</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1420	Range	42.64 - 158.76 (median=77.00 mean=78.36 std=16.18)
398		Missing

<i>AO_ROOT</i>		<i>Ao_root</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1449	Range	1.67 - 4.03 (median=2.72 mean=2.75 std=0.37)
369		Missing

<i>AO_ROOT_AREA</i>		<i>Ao_root_area</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1449	Range	2.20 - 12.75 (median=5.79 mean=6.07 std=1.66)
369		Missing

<i>LAVI2</i>		<i>LA Volume Index2 (ml/m2)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1725	Range	4.74 - 67.18 (median=23.00 mean=23.92 std=7.83)
93		Missing

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<i>LAVI4</i>		<i>LA Volume Index4 (ml/m2)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1705	Range	6.21 - 73.00 (median=21.73 mean=22.66 std=7.78)
113		Missing

<i>RVFAC</i>		<i>RV Fractional Area Change</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1650	Range	-0.11 - 0.72 (median=0.46 mean=0.45 std=0.10)
168		Missing

<i>E_EPRIME_LAT</i>		<i>E/Em Lateral Ratio</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1786	Range	3.45 - 31.30 (median=8.20 mean=8.92 std=3.30)
32		Missing

<i>E_EPRIME_SEP</i>		<i>E/Em Septal Ratio</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1792	Range	4.86 - 40.37 (median=11.18 mean=11.70 std=3.52)
26		Missing

<i>RWT</i>		<i>Relative Wall Thickenss</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1792	Range	0.19 - 0.81 (median=0.38 mean=0.40 std=0.09)
26		Missing

<i>LAV</i>		<i>LA Volume</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1795	Range	8.51 - 123.76 (median=40.85 mean=42.30 std=13.62)
23		Missing

<i>LAVI</i>		<i>LA Volume Index</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1781	Range	5.24 - 73.00 (median=22.14 mean=23.20 std=7.24)
37		Missing

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<i>ESV</i>		<i>End Systolic Volume</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1794	Range	8.37 - 137.13 (median=30.47 mean=32.43 std=10.89)
24		Missing

<i>EDV</i>		<i>End Diastolic Volume</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1795	Range	31.20 - 200.70 (median=77.78 mean=80.85 std=21.15)
23		Missing

<i>C_OUTPUT</i>		<i>Cardiac Output</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1414	Range	1916.70 - 17041.39 (median=4373.43 mean=4569.95 std=1283.90)
404		Missing

<i>EPRIME</i>		<i>E'</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1808	Range	2.67 - 15.69 (median=8.00 mean=8.16 std=2.07)
10		Missing

<i>E_EPRIME</i>		<i>E E'</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1797	Range	4.29 - 28.03 (median=9.45 mean=9.96 std=3.03)
21		Missing

<i>TRVELMSEC</i>		<i>TR max vel m/sec</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1720	Range	0.11 - 3.35 (median=2.13 mean=2.04 std=0.45)
98		Missing

<i>STUDY_DATE</i>		<i>STUDY-DATE</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1818	Range	18904.00 - 19893.00 (median=19292.00 mean=19329.54 std=261.26)

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<i>RECEIPT_DATE</i>		<i>Receipt Date</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1818	Range	18904.00 - 19905.00 (median=19295.00 mean=19330.71 std=260.50)

<i>RECEIPT_TIME</i>		<i>Receipt Time</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1783	Range	2:26 - 20:50
35		Missing

<i>PERICARDIALEFFUSION</i>		<i>Pericardial Effusion</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1773	None	None
5	Small	Small
40	Trace	Trace

<i>LVREGWALLMOTAB N__1</i>		<i>LV Regional Wall Motion Abnormality (choice=None)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1776	Checked	Checked
42	Unchecked	Unchecked

<i>LVREGWALLMOTAB N__2</i>		<i>LV Regional Wall Motion Abnormality (choice=Anterior)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1818	Unchecked	Unchecked

<i>LVREGWALLMOTAB N__3</i>		<i>LV Regional Wall Motion Abnormality (choice=Inferior)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10	Checked	Checked
1808	Unchecked	Unchecked

<i>LVREGWALLMOTAB N__4</i>		<i>LV Regional Wall Motion Abnormality (choice=Lateral)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1	Checked	Checked
1817	Unchecked	Unchecked

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LVREGWALLMOTAB N__5		LV Regional Wall Motion Abnormality (choice=Posterior)
N	Value	Description
1	Checked	Checked
1817	Unchecked	Unchecked

LVREGWALLMOTAB N__6		LV Regional Wall Motion Abnormality (choice=Septal)
N	Value	Description
4	Checked	Checked
1814	Unchecked	Unchecked

LVREGWALLMOTAB N__7		LV Regional Wall Motion Abnormality (choice=Apical)
N	Value	Description
4	Checked	Checked
1814	Unchecked	Unchecked

LVREGWALLMOTAB N__8		LV Regional Wall Motion Abnormality (choice=Global Hypokinesis)
N	Value	Description
13	Checked	Checked
1805	Unchecked	Unchecked

LV_WMA2		LV WMA
N	Value	Description
12	Mild	Mild
4	Moderate	Moderate
1802		Missing

MITRALREG		Mitral Regurgitation
N	Value	Description
215	None	None
1433	Trace	Trace
153	Mild	Mild
16	Moderate	Moderate
1	Severe	Severe

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<i>AORTICREG</i>		<i>Aortic Regurgitation</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1602	None	None
135	Trace	Trace
78	Mild	Mild
3	Moderate	Moderate

<i>TRICUSPIDREG</i>		<i>Tricuspid Regurgitation</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
128	None	None
1408	Trace	Trace
261	Mild	Mild
20	Moderate	Moderate
1	Severe	Severe

<i>PULMONICREG</i>		<i>Pulmonic Regurgitation</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
854	None	None
923	Trace	Trace
39	Mild	Mild
1	Moderate	Moderate
1		Missing

<i>MITRALANNCALC</i>		<i>Mitral Annular Calcification</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1758	None	None
52	Mild	Mild
7	Moderate	Moderate
1	Severe	Severe

<i>MITRALVALVEPROP LAPSE</i>		<i>Mitral Valve Proplase</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11	Borderline	
1791	None	None
14	Mild	Mild
2	Moderate	Moderate

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<i>AVCALC</i>		<i>AV Calcification</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1676	None	None
133	Mild	Mild
9	Moderate	Moderate

<i>BICUSPIDAV</i>		<i>Bicuspid Aortic Valve</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1790	No	No
8	Yes	Yes
18	Cannot Determine	Cannot Determine
2		Missing

<i>INTERATRIALSEP</i>		<i>Interatrial Septum</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
19	ASA	ASA
56	Hypermobil e	Hypermobile
1740	None	None
3		Missing

<i>DISPLACE_PM_PEA K</i>		<i>PM Peak Circumferential displacement SAX_PM(degrees)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1713	Range	0.01 - 11.50 (median=1.73 mean=2.21 std=1.83)
105		Missing

<i>DISPLACE_MV_PEA K</i>		<i>MV Peak Circumferential displacement SAX_MV(degrees)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1625	Range	-20.54 - 3.59 (median=-6.38 mean=-6.81 std=3.60)
193		Missing

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<i>DISPLACE_APEX_P EAK</i>		<i>APEX Peak Circumferential displacement SAX_AP(degrees)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1702	Range	0.00 - 32.90 (median=4.84 mean=5.76 std=4.31)
116		Missing

<i>LONGST4CH</i>		<i>Average LONG Strain 4ch(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1789	Range	-27.79 - -2.69 (median=-17.24 mean=-17.15 std=3.24)
29		Missing

<i>LONGTIME4CH</i>		<i>Average LONG time to peak strain 4ch(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1789	Range	214.00 - 570.00 (median=366.00 mean=368.69 std=50.72)
29		Missing

<i>TRANSST4CH</i>		<i>Average TRANS stain 4ch(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1789	Range	2.31 - 92.74 (median=27.59 mean=28.94 std=10.29)
29		Missing

<i>TRANSTIME</i>		<i>Average TRANS time to peak stain 4ch(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1789	Range	108.00 - 593.00 (median=361.00 mean=363.45 std=57.04)
29		Missing

<i>LONGST2CH</i>		<i>Average LONG Strain 2ch(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1750	Range	-34.58 - -4.16 (median=-17.98 mean=-18.12 std=3.44)
68		Missing

<i>LONGTIME2CH</i>		<i>Average LONG time to peak strain 2ch(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1750	Range	228.00 - 593.00 (median=379.00 mean=382.49 std=55.09)
68		Missing

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<i>TRANSST2CH</i>		<i>Average TRANS stain 2ch(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1750	Range	4.95 - 150.78 (median=27.28 mean=29.02 std=12.15)
68		Missing

<i>TRANSTIME2CH</i>		<i>Average TRANS time to peak stain 2ch(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1750	Range	171.00 - 1170.00 (median=360.00 mean=368.57 std=73.09)
68		Missing

<i>CIRCSTPM</i>		<i>Average CIRC Strain sax_PM(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1756	Range	-49.70 - -4.62 (median=-23.68 mean=-23.93 std=6.41)
62		Missing

<i>CIRCTIMEPM</i>		<i>Average CIRC time to peak strain sax_PM(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1756	Range	203.00 - 578.00 (median=353.00 mean=351.19 std=48.40)
62		Missing

<i>RADSTPM</i>		<i>Average RAD Strain sax_PM(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1756	Range	5.81 - 120.21 (median=34.07 mean=35.97 std=14.03)
62		Missing

<i>RADTIMEPM</i>		<i>Average RAD time to peak strain sax_PM(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1756	Range	172.00 - 675.00 (median=360.00 mean=366.60 std=65.46)
62		Missing

<i>GLLONGST</i>		<i>Average Global Logitudinal Strain(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1740	Range	-26.17 - -3.43 (median=-17.70 mean=-17.67 std=2.85)
78		Missing

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<i>GLLONGTIME</i>		<i>Global Longitudinal time to peak strain(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1799	Range	229.00 - 571.00 (median=374.50 mean=375.17 std=47.86)
19		Missing

<i>EDV_BSA</i>		<i>EDV/BSA</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1781	Range	21.04 - 101.30 (median=43.28 mean=44.12 std=9.68)
37		Missing

<i>LVGA</i>		<i>LV geometry LVMI 125 RWT 0.42</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1155	1.Normal	1.Normal
564	2.Concentric Remodeling	2.Concentric Remodeling
10	3.Eccentric Hypertrophy	3.Eccentric Hypertrophy
48	4.Concentric Hypertrophy	4.Concentric Hypertrophy
41	5.Unclassified	5.Unclassified

<i>IVS_NORM</i>		<i>IVS norm 1.2 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
414	Abnormal	Abnormal
1378	Normal	Normal
26		Missing

<i>PW_NORM</i>		<i>PW norm 1.2 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
84	Abnormal	Abnormal
1708	Normal	Normal
26		Missing

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<i>LVM_INDEX_NORM</i>		<i>LVMlg/m2 115 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
111	Abnormal	Abnormal
1666	Normal	Normal
41		Missing

<i>RWT_NORM</i>		<i>RWT 0.42 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
617	Abnormal	Abnormal
1175	Normal	Normal
26		Missing

<i>LADIM_NORM</i>		<i>LADIM 4.2 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
53	Abnormal	Abnormal
1719	Normal	Normal
46		Missing

<i>LAVI_NORM</i>		<i>LAVI 29 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
319	Abnormal	Abnormal
1462	Normal	Normal
37		Missing

<i>EDV_NORM</i>		<i>EDV 95 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
392	Abnormal	Abnormal
1403	Normal	Normal
23		Missing

<i>ESV_NORM</i>		<i>ESV 40 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
344	Abnormal	Abnormal
1450	Normal	Normal
24		Missing

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<i>EF_NORM</i>		<i>EF 50 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
60	Abnormal	Abnormal
1669	Normal	Normal
89		Missing

<i>LVSV_NORM</i>		<i>LVSV 55 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
359	Abnormal	Abnormal
1429	Normal	Normal
30		Missing

<i>EA_NORM</i>		<i>E/A 0.8-1.5 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
498	Abnormal	Abnormal
1299	Normal	Normal
21		Missing

<i>EPRIME_NORM</i>		<i>E' 8 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
905	Abnormal	Abnormal
903	Normal	Normal
10		Missing

<i>E_EPRIME_NORM</i>		<i>E E' 10 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
747	Abnormal	Abnormal
1050	Normal	Normal
21		Missing

<i>SD_NORM</i>		<i>S/D 1 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
156	Abnormal	Abnormal
1582	Normal	Normal
80		Missing

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<i>IVRT_NORM</i>		<i>IVRT 0.06-0.1 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
583	Abnormal	Abnormal
1209	Normal	Normal
26		Missing

<i>RVPS_NORM</i>		<i>RVPS 10 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
421	Abnormal	Abnormal
1397	Normal	Normal

<i>TAPSE_NORM</i>		<i>TAPSE 1.5 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
117	Abnormal	Abnormal
1614	Normal	Normal
87		Missing

<i>RVAS4_NORM</i>		<i>RVAS4 16 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7	Abnormal	Abnormal
1643	Normal	Normal
168		Missing

<i>RVAD4_NORM</i>		<i>RVAD4 28 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4	Abnormal	Abnormal
1656	Normal	Normal
158		Missing

<i>TRVEL_NORM</i>		<i>TRVEL 2.5 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
195	Abnormal	Abnormal
1525	Normal	Normal
98		Missing

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<i>RVSV_NORM</i>		<i>RVSV 85 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
64	Abnormal	Abnormal
1708	Normal	Normal
46		Missing

<i>RVFAC_NORM</i>		<i>RVFAC 0.32 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
151	Abnormal	Abnormal
1498	Normal	Normal
169		Missing

<i>DD2</i>		<i>Diastolic Dysfunction Grade alg.</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
806	Grade 0	Grade 0
269	Grade I	Grade I
670	Grade II	Grade II
41	Grade III	Grade III
32	Unclassified	Unclassified

<i>DD2_NOUNK</i>		<i>Diastolic Dysfunction Grade alg. no unknowns</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
806	Grade 0	Grade 0
269	Grade I	Grade I
670	Grade II	Grade II
41	Grade III	Grade III
32		Missing

<i>DD_2CAT</i>		<i>Diastolic Dysfunction Grade alg. 0 vs I-III</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
806	Grade 0	Grade 0
980	Grade I-III	Grade I-III
32		Missing

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<i>DD_2CATB</i>		<i>Diastolic Dysfunction Grade alg. 0-I vs II-III</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1075	Grade 0-I	Grade 0-I
711	Grade II-III	Grade II-III
32		Missing

<i>PREHTN_ECHO</i>		<i>ECHO PrehypertYN sbp120,139 dbp80,89</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
751	0.00	Abnormal
1045	1.00	Normal
22		Missing

<i>LPSVEL_NORM</i>		<i>Lat Peak S Vel cm/sec 7 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
435	Abnormal	Abnormal
1351	Normal	Normal
32		Missing

<i>FS_NORM</i>		<i>Fractional Shortening 28 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
649	Abnormal	Abnormal
1134	Normal	Normal
35		Missing

<i>CO_NORM</i>		<i>Cardiac Output 4 liters cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
510	Abnormal	Abnormal
904	Normal	Normal
404		Missing

<i>CIRCSAXMV</i>		<i>Average Circumferential Strain sax_MV(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1586	Range	-40.80 - -1.55 (median=-20.13 mean=-20.08 std=5.17)
232		Missing

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<i>CIRCSAXMVTIME</i>		<i>Average Circumferential Strain time to peak sax_MV(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1586	Range	97.00 - 593.00 (median=371.00 mean=373.46 std=72.40)
232		Missing

<i>RADSAXMV</i>		<i>Average Radial Strain sax_MV(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1586	Range	3.66 - 182.49 (median=35.28 mean=37.78 std=15.95)
232		Missing

<i>RADSAXMVTIME</i>		<i>Average Radial strain time to peak sax_MV(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1586	Range	134.00 - 884.00 (median=374.00 mean=379.15 std=96.11)
232		Missing

<i>CIRCSAXAPEX</i>		<i>Average Circumferential Strain sax_APEX(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1713	Range	-69.07 - -4.27 (median=-29.10 mean=-29.28 std=9.54)
105		Missing

<i>CIRCSAXAPEXTIME</i>		<i>Average Circumferential Strain time to peak sax_APEX(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1713	Range	164.00 - 541.00 (median=344.00 mean=346.43 std=46.66)
105		Missing

<i>RADSAXAPEX</i>		<i>Average Radial Strain sax_APEX(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1713	Range	1.00 - 84.32 (median=28.38 mean=30.11 std=11.41)
105		Missing

<i>RADSAXAPEXTIME</i>		<i>Average Radial Strain time to peak sax_APEX(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1713	Range	63.00 - 999.00 (median=354.00 mean=354.73 std=63.21)
105		Missing

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<i>LONGST4CH_GLOB AL</i>		<i>Global Longitudinal Strain 4ch (%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1789	Range	-31.17 - -3.41 (median=-18.45 mean=-18.39 std=3.49)
29		Missing

<i>LONGTIME4CH_GLO BAL</i>		<i>Global Longitudinal Strain time to peak 4ch(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1789	Range	213.60 - 585.30 (median=363.11 mean=368.21 std=55.99)
29		Missing

<i>LONGST2CH_GLOB AL</i>		<i>Global Longitudinal Strain 2ch (%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1750	Range	-37.73 - -5.28 (median=-19.35 mean=-19.53 std=3.70)
68		Missing

<i>LONGTIME2CH_GLO BAL</i>		<i>Global Longitudinal Strain time to peak 2ch(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1750	Range	201.38 - 615.72 (median=375.20 mean=382.87 std=62.46)
68		Missing

<i>CIRCSTPM_GLOBAL</i>		<i>Global Circumferential Strain sax_pm (%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1756	Range	-51.53 - -6.65 (median=-24.71 mean=-25.08 std=7.05)
62		Missing

<i>CIRCTIMEPM_GLOB AL</i>		<i>Global Circumferential Strain time to peak sax_PM (msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1756	Range	205.50 - 577.59 (median=350.47 mean=352.38 std=53.55)
62		Missing

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<i>CIRCSTMV_GLOBAL</i>		<i>Global Circumferential Strain sax_MV(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1586	Range	-41.76 - -2.64 (median=-21.38 mean=-21.39 std=5.53)
232		Missing

<i>CIRCTIMMV_GLOBAL</i>		<i>Global Circumferential Strain time to peak sax_MV (msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1586	Range	130.66 - 643.38 (median=374.16 mean=378.30 std=77.94)
232		Missing

<i>CIRCSTAPEX_GLOBAL</i>		<i>Global Circumferential Strain APEX(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1713	Range	-72.34 - -2.99 (median=-31.65 mean=-31.57 std=10.63)
105		Missing

<i>CIRCTIMEAPEX_GLOBAL</i>		<i>Global Circumferential Strain time to peak APEX(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1713	Range	163.86 - 567.14 (median=346.80 mean=347.42 std=49.13)
105		Missing

<i>AV_GLLONGST</i>		<i>Average Global Longitudinal Strain Tomtec(%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1740	Range	-29.34 - -4.35 (median=-19.11 mean=-18.99 std=3.10)
78		Missing

<i>AV_GLCIRCST</i>		<i>Average Global Circumferential Strain Tomtec (%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1793	Range	-56.18 - -5.55 (median=-26.09 mean=-26.07 std=6.54)
25		Missing

<i>AV_CIRCST</i>		<i>Average Global Circumferential Strain (%)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1793	Range	-53.57 - -5.35 (median=-24.44 mean=-24.49 std=5.95)
25		Missing

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<i>AV_GLLONGSTTIME</i>		<i>Average Global Longitudinal strain time to peak(msec)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1799	Range	228.99 - 571.35 (median=372.45 mean=375.02 std=52.21)
19		Missing

<i>LVTWIST</i>		<i>LVtwist</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1514	Range	-0.41 - 40.69 (median=11.79 mean=12.55 std=5.52)
304		Missing

<i>LULD_AP2</i>		<i>LV Length d ap2</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1739	Range	4.96 - 10.20 (median=7.28 mean=7.32 std=0.76)
79		Missing

<i>LULD_AP4</i>		<i>LV Length d ap4</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1783	Range	5.26 - 10.11 (median=7.47 mean=7.49 std=0.70)
35		Missing

<i>LVLS_AP2</i>		<i>LV Length s ap2</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1739	Range	3.71 - 8.41 (median=5.76 mean=5.78 std=0.71)
79		Missing

<i>LVLS_AP4</i>		<i>LV Length s ap4</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1781	Range	3.86 - 8.90 (median=5.94 mean=5.98 std=0.67)
37		Missing

<i>LAVI_34_NORM</i>		<i>LAVI 34 cutoff</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
122	Abnormal	Abnormal
1659	Normal	Normal
37		Missing

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<i>DD_LAVI34</i>		<i>Diastolic Dysfunction w LAVI34</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
870	Grade 0	Grade 0
269	Grade I	Grade I
614	Grade II	Grade II
33	Grade III	Grade III
32		Missing

<i>DD_LAVI34_2CAT_A</i>		<i>Diastolic Dysfunction Grade 0 vs I-III w LAVI34</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
870	Grade 0	Grade 0
916	Grade I-III	Grade I-III
32		Missing

<i>DD_LAVI34_2CAT_B</i>		<i>Diastolic Dysfunction Grade 0-I vs II-III w LAVI34</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1139	Grade 0-I	Grade 0-I
647	Grade II-III	Grade II-III
32		Missing

<i>DD_LAVI34_6CAT</i>		<i>Diastolic Dysfunction plus unknowns w LAVI34</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
870	Grade 0	Grade 0
269	Grade I	Grade I
614	Grade II	Grade II
33	Grade III	Grade III
32	Unknown	Unknown

<i>MITRALSTENOSIS</i>		<i>Mitral Stenosis</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1817	0.00	No
1	1.00	Yes

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<i>AORTICSTENOSIS</i>		<i>Aortic Stenosis</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1813	0.00	No
5	1.00	Yes

<i>LVOTOBST</i>		<i>LVOT Obstruction</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1816	0.00	No
2	1.00	Yes