The CONTENTS Procedure

```
Data Set Name         IN.ECHODATA              Observations          492
Member Type           DATA                     Variables             60
Engine                V9                       Indexes               0
Created               15:53 Friday, April 4, 2008   Observation Length    744
Last Modified         15:53 Friday, April 4, 2008   Deleted Observations  0
Protection                                     Compressed            NO
Data Set Type                                  Sorted                NO
Label
Data Representation   WINDOWS
Encoding              wlatin1  Western (Windows)
```

Engine/Host Dependent Information

```
Data Set Page Size          16384
Number of Data Set Pages    24
First Data Page             1
Max Obs per Page            21
Obs in First Data Page      10
Number of Data Set Repairs  0
File Name                   echodata.sas7bdat
Release Created             9.0000M0
Host Created                XP_PRO
```

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
1	ANONID	Char	8	ANONYMIZED ID #
50	DOACCT	Num	8	10.2L DOPPLER PULMONARY ACCEL TIME
46	DOLVAT	Num	8	10.2H DOPPLER ACCELERATION TIME
45	DOLVET	Num	8	10.2G DOPPLER LVET
44	DOLVPE	Num	8	10.2F DOPPLER LV-PET
43	DOLVPV	Num	8	10.2E DOPPLER LV PEAK VELOCITY
41	DOMPKA	Num	8	10.2C DOPPLER PEAK A
39	DOMPKE	Num	8	10.2A DOPPLER PEAK E
42	DOMVIA	Num	8	10.2D DOPPLER VELOCITY INTEGRAL A
40	DOMVIE	Num	8	10.2B DOPPLER VELOCITY INTEGRAL E
47	DOPPKV	Num	8	10.2I DOPPLER PULMONARY PEAK VELOCITY
38	DORR	Num	8	10.1 DOPPLER R-R INTERVAL
49	DORVET	Num	8	10.2K DOPPLER PULMONARY RVET
48	DORVPE	Num	8	10.2J DOPPLER PULMONARY RV-PET
51	DOTRPV	Num	8	10.2M DOPPLER TRICUSPID PEAK VELOCITY
57	ECDOCOMM	Char	40	DOPPLER ECHO COMMENTS
4	ECDODATE	Num	8	DATE OF DOPPLER ECHO - (DAYS SINCE PHASE 2 ENROLLMENT)
53	ECDODX1	Char	25	10.5a DOPPLER ECHO DIAGNOSIS
54	ECDODX2	Char	25	10.5b DOPPLER ECHO DIAGNOSIS
55	ECDODX3	Char	25	10.5c DOPPLER ECHO DIAGNOSIS
56	ECDODX4	Char	25	10.5d DOPPLER ECHO DIAGNOSIS
52	ECDOQUAL	Char	20	10.3 DOPPLER ECHO QUALITY
9	ECDOREQ	Num	8	7.2 ALL DOPPLER REQUIREMENTS RECEIVED
10	ECDOREQM	Char	20	7.3 LIST OF MISSING DOPPLER REQUIREMENTS
11	ECDOREQS	Char	2	7.4 DOPPLER REQUIREMENTS ACCEPTABLE
12	ECDORSN	Char	20	REASON DOPPLER REQUIREMENTS UNACCEPTABLE
13	ECHGB	Num	8	8. HEMOGLOBIN

The CONTENTS Procedure

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Label
14	ECHGBDAT	Num	8	DATE OF HEMOGLOBIN - (DAYS SINCE PHASE 2 ENROLLMENT)
3	ECID2	Num	8	VISIT CYCLE #
58	ECIRPT	Num	8	ECHO INSTITUTIONAL REPORTS RECEIVED
37	ECMMCOM	Char	40	M-MODE ECHO COMMENTS
2	ECMMDATE	Num	8	DATE OF M-MODE ECHO -(DAYS SINCE PHASE 2 ENROLLMENT)
33	ECMMDX1	Char	25	9.5a M-MODE ECHO DIAGNOSIS
34	ECMMDX2	Char	25	9.5b M-MODE ECHO DIAGNOSIS
35	ECMMDX3	Char	25	9.5c M-MODE ECHO DIAGNOSIS
36	ECMMDX4	Char	25	9.5d M-MODE ECHO DIAGNOSIS
32	ECMMINT	Num	8	9.5 INTERPRETATION OF M-MODE ECHO
31	ECMMQUAL	Char	20	9.4 QUALITY OF M-MODE ECHO
5	ECMMREQ	Num	8	6.2 ALL M-MODE REQUIREMENTS RECEIVED
6	ECMMREQM	Char	20	6.3 LIST OF MISSING M-MODE REQUIREMENTS
7	ECMMREQS	Char	2	6.4 ACCEPTABILITY OF M-MODE REQUIREMENTS
8	ECMMRSN	Char	20	REASON M-MODE ECHO UNACCEPTABLE
30	MMARD	Num	8	9.3N AORTIC ROOT DIMENSION
29	MMLA	Num	8	9.3M LEFT ATRIAL DIMENSION
21	MMLVED	Num	8	9.3E M-MODE LVED
22	MMLVES	Num	8	9.3F M-MODE LVES
24	MMLVET	Num	8	9.3H M-MODE LVET
23	MMLVPE	Num	8	9.3G M-MODE LV-PET
16	MMPEF	Num	8	9.2 M-MODE PERICARDIAL EFFUSION
27	MMPWD	Num	8	9.3K POSTERIOR WALL THICKNESS (DIASTOLE)
28	MMPWS	Num	8	9.3L POSTERIOR WALL THICKNESS (SYSTOLE)
17	MMRVED	Num	8	9.3A M-MODE RVED
20	MMRVET	Num	8	9.3D M-MODE RVET
19	MMRVPE	Num	8	9.3C M-MODE RV-PET
18	MMRVWT	Num	8	9.3B M-MODE RVWT
15	MMSM	Num	8	9.1 M-MODE SEPTAL MOTION
25	MMVSD	Num	8	9.3I VENTRI SEPTAL THICKNESS (DIASTOLE)
26	MMVSS	Num	8	9.3J VENTRI SEPTAL THICKNESS (SYSTOLE)
59	QCREVIEW	Num	8	CENTRAL QC REVIEW RESULTS
60	RESOLVED	Num	8	CENTRAL REVIEW DIFFERENCES RESOLVED

```
* K:\SAS\FMTLIB\ECHO.FMT;
* First missing value codes are recoded;
* FORMAT STATEMENTS FOR ECHO FORM;
* THESE ARE FORMAT STATEMENTS FOR VARIABLES IN ECHODATA.SSD;

ARRAY NEGCODES ECCMMREQ ECDOREQ ECHGB MMSM MMPEF MMSM--MMARD
   ECMMINT DORR--DOTRPV ECIRPT QCREVIEW RESOLVED;
DO OVER NEGCODES;
IF NEGCODES EQ -9 THEN NEGCODES=.;
IF NEGCODES EQ -1 THEN NEGCODES=.A;
IF NEGCODES EQ -8 THEN NEGCODES=.B;
IF NEGCODES EQ -7 THEN NEGCODES=.C;
END;

ARRAY NEGDATES ECMMDATE ECDODATE ECHGBD
      ADD_DATE;
DO OVER NEGDATES;
IF NEGDATES EQ MDY(9,9,9) THEN NEGDATES=.;
IF NEGDATES EQ MDY(1,1,1) THEN NEGDATES=.A;
IF NEGDATES EQ MDY(8,8,8) THEN NEGDATES=.B;
IF NEGDATES EQ MDY(11,11,11) THEN NEGDATES=.C;
END;

ARRAY TEXTNEGS ECMMREQM ECMMREQS ECMMRSN
               ECDOREQM ECDOREQS ECDORSN
               ECMMQUAL ECMMDX1 ECMMDX2 ECMMDX3 ECMMDX4
               ECMMCOM ECDOQUAL ECDODX1 ECDODX2
               ECDODX3 ECDODX4 ECDOCOMM;
DO OVER TEXTNEGS;
IF TEXTNEGS EQ '-1' THEN TEXTNEGS='MISSING, REASON';
IF TEXTNEGS EQ '-7' THEN TEXTNEGS='N/A';
IF TEXTNEGS EQ '-9' THEN TEXTNEGS='MISSING';
END;


PROC FORMAT;

* FORMAT NOYES is defined for variable ECMMREQ ECDOREQ
    MMPEF ECIRPT RESOLVED;

VALUE NOYES
     1    ='1-NO'
     2    ='2-YES'
     .    ='MISSING'
     .A   ='MISSING,REASON'
     .B   ='OUT-OF-RANGE'
     .C   ='NOT APPLICABLE';

* FORMAT MOTION is defined for variable septal motion MMSM;

VALUE MOTION 1='1-NORMAL'
             2='2-FLAT'
             3='3-PARADOXICAL'
             .='MISSING'
            .A='MISSING,REASON'
            .B='OUT-OF-RANGE'
            .C='NOT APPLICABLE';

* FORMAT NORMABN is defined for variable ECMMINT;

   VALUE NORMABN 1='1-NORMAL'
                 2='2-ABNORMAL'
                 .='MISSING'
                .A='MISSING,REASON'
                .B='OUT-OF-RANGE'
```

```
                  .C='NOT APPLICABLE';

* FORMAT QCREVIEW is defined for variable QCREVIEW;

  VALUE QCREVIEW 1='1 NOT REVIEWED'
                 2='2 REVIEWED,AGREE'
                 3='3 REVIEWED,DISAGREE'
                 .  ='MISSING'
                 .A ='MISSING,REASON'
                 .B ='OUT-OF-RANGE'
                 .C ='NOT APPLICABLE';
```

6.2 ALL M-MODE REQUIREMENTS RECEIVED

ECMMREQ	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1-NO	3	0.6	3	0.6
2-YES	489	99.4	492	100.0

6.3 LIST OF MISSING M-MODE REQUIREMENTS

ECMMREQM	Frequency	Percent	Cumulative Frequency	Cumulative Percent
HGB	1	0.2	1	0.2
N/A	489	99.4	490	99.6
NO DATA RECEIVED	1	0.2	491	99.8
NO HARD COPY	1	0.2	492	100.0

6.4 ACCEPTABILITY OF M-MODE REQUIREMENTS

ECMMREQS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A	489	99.4	489	99.4
N/A	3	0.6	492	100.0

REASON M-MODE ECHO UNACCEPTABLE

ECMMRSN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
N/A	492	100.0	492	100.0

7.2 ALL DOPPLER REQUIREMENTS RECEIVED

ECDOREQ	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1-NO	8	1.6	8	1.6
2-YES	484	98.4	492	100.0

7.3 LIST OF MISSING DOPPLER REQUIREMENTS

ECDOREQM	Frequency	Percent	Cumulative Frequency	Cumulative Percent
MOSTLY INCOMPLET	1	0.2	1	0.2
N/A	484	98.4	485	98.6
NO DATA RECEIVED	1	0.2	486	98.8
NO HARD COPY	1	0.2	487	99.0
NO TRACINGS SENT	5	1.0	492	100.0

7.4 DOPPLER REQUIREMENTS ACCEPTABLE

ECDOREQS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A	484	98.4	484	98.4
N/A	8	1.6	492	100.0

REASON DOPPLER REQUIREMENTS UNACCEPTABLE

ECDORSN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
N/A	492	100.0	492	100.0

Variable=ECHGB   8. HEMOGLOBIN

Moments

N	330	Sum Wgts	330
Mean	9.037273	Sum	2982.3
Std Dev	2.148649	Variance	4.616692

```
Skewness    0.165091  Kurtosis   -0.18607
USS         28470.75  CSS        1518.892
CV          23.77541  Std Mean   0.118279
T:Mean=0    76.40626  Pr>|T|       0.0001
Num ^= 0         330  Num > 0         330
M(Sign)          165  Pr>=|M|      0.0001
Sgn Rank     27307.5  Pr>=|S|      0.0001


              Quantiles(Def=5)

100% Max       15.2      99%        14
 75% Q3        10.6      95%      12.9
 50% Med          9      90%      11.8
 25% Q1         7.4      10%       6.5
  0% Min        3.2       5%       5.8
                         1%       4.1
Range            12
Q3-Q1           3.2
Mode            9.6


                 Extremes

   Lowest    Obs     Highest    Obs
      3.2(    415)      13.9(    488)
      3.3(     51)        14(     48)
      3.8(    420)      14.1(    452)
      4.1(    474)      14.6(     89)
      4.5(    466)      15.2(     90)


     162 Missing Values
Missing Value       .         A
Count             161         1
% Count/Nobs    32.72      0.20
% Count/Nmiss   99.38      0.62
```

9.1 M-MODE SEPTAL MOTION

	MMSM	Frequency	Percent	Cumulative Frequency	Cumulative Percent
MISSING		14	.	.	.
MISSING,REASON		1	.	.	.
1-NORMAL		474	99.4	474	99.4
2-FLAT		3	0.6	477	100.0

Frequency Missing = 15

9.2 M-MODE PERICARDIAL EFFUSION

	MMPEF	Frequency	Percent	Cumulative Frequency	Cumulative Percent
MISSING		20	.	.	.
MISSING,REASON		1	.	.	.
1-NO		405	86.0	405	86.0
2-YES		66	14.0	471	100.0

Frequency Missing = 21


```
Variable=MMRVED        9.3A M-MODE RVED
                                                         Quantiles(Def=5)
                Moments
                                              100% Max     4.2      99%      3.6
N               417   Sum Wgts       417       75% Q3      2.4      95%        3
Mean       2.081295   Sum          867.9       50% Med     2.1      90%      2.8
Std Dev    0.568217   Variance    0.32287      25% Q1      1.7      10%      1.3
Skewness   0.219342   Kurtosis   0.264384       0% Min     0.6       5%      1.2
USS         1940.67   CSS        134.3141                            1%      0.9
CV         27.30112   Std Mean   0.027826      Range       3.6
T:Mean=0   74.79758   Pr>|T|       0.0001      Q3-Q1       0.7
Num ^= 0        417   Num > 0         417      Mode        2.2
M(Sign)       208.5   Pr>=|M|      0.0001
Sgn Rank    43576.5   Pr>=|S|      0.0001                         Extremes
```

```
        Lowest      Obs     Highest     Obs                        66(    188)      140(    327)
          0.6(      37)        3.6(     159)      Missing Value            A
          0.8(     487)        3.6(     316)      Count                  282
          0.8(      57)        3.7(     305)      % Count/Nobs         57.32
          0.8(      40)        3.8(     300)      ----------------------------------------
          0.9(     492)        4.2(     280)      Variable=MMRVET          9.3D M-MODE RVET
```

Variable=MMRVET   9.3D M-MODE RVET

                                                         Moments

                                             N   79 Sum Wgts   79
Missing Value   A   Mean   342.1013 Sum   27026
Count   75   Std Dev 38.34345 Variance   1470.22
% Count/Nobs   15.24   Skewness -0.70219 Kurtosis   0.856439
-------------------------------------   USS   9360306 CSS   114677.2
Variable=MMRVWT   9.3B M-MODE RVWT CV   11.20822 Std Mean   4.313975
                                             T:Mean=0 79.3007 Pr>|T| 0.0001
                Moments   Num ^= 0   79 Num > 0   79
                                             M(Sign)   39.5 Pr>=|M| 0.0001
N   242 Sum Wgts   242   Sgn Rank   1580 Pr>=|S| 0.0001
Mean   0.500826 Sum   121.2
Std Dev 0.170669 Variance   0.029128   Quantiles(Def=5)
Skewness 1.643367 Kurtosis   6.788115
USS   67.72 CSS   7.019835   100% Max   420   99%   420
CV   34.0775 Std Mean   0.010971   75% Q3   370   95%   399
T:Mean=0 45.64992 Pr>|T| 0.0001   50% Med   345   90%   385
Num ^= 0   242 Num > 0   242   25% Q1   320   10%   290
M(Sign)   121 Pr>=|M| 0.0001   0% Min   220   5%   265
Sgn Rank 14701.5 Pr>=|S| 0.0001   1%   220
                                             Range   200
        Quantiles(Def=5)   Q3-Q1   50
                                             Mode   335
 100% Max   1.5   99%   0.9
  75% Q3   0.6   95%   0.8   Extremes
  50% Med   0.5   90%   0.7
  25% Q1   0.4   10%   0.3   Lowest   Obs   Highest   Obs
   0% Min   0.2   5%   0.3   220(50)   387(188)
                          1%   0.2   240(468)   399(200)
Range   1.3   250(51)   410(410)
Q3-Q1   0.2   265(445)   411(194)
Mode   0.4   285(347)   420(474)

            Extremes   Missing Value   A
                                             Count   413
        Lowest   Obs   Highest   Obs % Count/Nobs   83.94
          0.2(416)   0.9(435)
          0.2(387)   0.9(436)
          0.2(373)   0.9(467)
          0.2(34)   1.4(66)
          0.2(33)   1.5(37)   **Variable=MMLVED   9.3E M-MODE LVED**

Missing Value   A   Moments
Count   250
% Count/Nobs   50.81   N   464 Sum Wgts   464
                                             Mean   5.300862 Sum   2459.6
                                             Std Dev 0.679982 Variance   0.462375
                                             Skewness 0.152311 Kurtosis   -0.38146
Variable=MMRVPE   9.3C M-MODE RV-PET USS   13252.08 CSS   214.0797
                                             CV   12.82776 Std Mean   0.031567
                Moments   T:Mean=0 167.9223 Pr>|T| 0.0001
                                             Num ^= 0   464 Num > 0   464
N   210 Sum Wgts   210   M(Sign)   232 Pr>=|M| 0.0001
Mean   92.70476 Sum   19468   Sgn Rank   53940 Pr>=|S| 0.0001
Std Dev 13.58153 Variance   184.4579
Skewness 0.291951 Kurtosis   0.342966   Quantiles(Def=5)
USS   1843328 CSS   38551.7
CV   14.6503 Std Mean   0.937214   100% Max   7.2   99%   6.9
T:Mean=0 98.91521 Pr>|T| 0.0001   75% Q3   5.8   95%   6.5
Num ^= 0   210 Num > 0   210   50% Med   5.3   90%   6.2
M(Sign)   105 Pr>=|M| 0.0001   25% Q1   4.8   10%   4.4
Sgn Rank 11077.5 Pr>=|S| 0.0001   0% Min   3.6   5%   4.2
                                                                      1%   3.9
        Quantiles(Def=5)   Range   3.6
                                             Q3-Q1   1
 100% Max   140   99%   130   Mode   5
  75% Q3   100   95%   115
  50% Med   90   90%   110   Extremes
  25% Q1   84   10%   75
   0% Min   60   5%   70   Lowest   Obs   Highest   Obs
                          1%   65   3.6(131)   6.9(341)
Range   80   3.6(38)   6.9(351)
Q3-Q1   16   3.7(132)   7(423)
Mode   90   3.8(186)   7.1(165)
                                                3.9(486)   7.2(466)
            Extremes
                                             Missing Value   A
        Lowest   Obs   Highest   Obs Count   28
          60(149)   120(440)   % Count/Nobs   5.69
          63(196)   120(451)   --
          65(321)   130(471)   **Variable=MMLVES   9.3F M-MODE LVES**
          65(139)   135(449)

```
                  Moments                                    CV          9.697872  Std Mean     1.774809
                                                             T:Mean=0    173.1602  Pr>|T|         0.0001
N                453   Sum Wgts         453                  Num ^= 0         282  Num > 0           282
Mean         3.35585   Sum           1520.2                  M(Sign)          141  Pr>=|M|        0.0001
Std Dev     0.602129   Variance     0.36256                  Sgn Rank     19951.5  Pr>=|S|        0.0001
Skewness     0.13374   Kurtosis    -0.23713
USS          5265.44   CSS          163.877                             Quantiles(Def=5)
CV          17.94268   Std Mean    0.028291
T:Mean=0    118.6211   Pr>|T|        0.0001                  100% Max         390        99%         380
Num ^= 0         453   Num > 0          453                   75% Q3          330        95%         355
M(Sign)        226.5   Pr>=|M|       0.0001                   50% Med         305        90%         345
Sgn Rank     51415.5   Pr>=|S|       0.0001                   25% Q1          286        10%         270
                                                              0% Min          195         5%         260
               Quantiles(Def=5)                                                           1%         235
                                                            Range            195
100% Max         5.4        99%         4.8                  Q3-Q1             44
 75% Q3          3.8        95%         4.3                  Mode             310
 50% Med         3.3        90%         4.1
 25% Q1            3        10%         2.6                                Extremes
  0% Min         1.9         5%         2.4                   Lowest    Obs     Highest    Obs
                            1%         2.1                     195(      50)      370(      474)
Range            3.5                                           235(     477)      375(      200)
Q3-Q1            0.8                                           235(     468)      380(      162)
Mode               3                                          245(     345)      380(      368)
                                                              245(     340)      390(      171)
                Extremes
                                                                210 Missing Values
  Lowest    Obs     Highest    Obs                          Missing Value        A        C
   1.9(     462)      4.8(      241)                         Count              209        1
     2(     416)      4.8(      322)                         % Count/Nobs     42.48     0.20
     2(     176)      4.8(      351)                         % Count/Nmiss    99.52     0.48
   2.1(     486)        5(      423)
   2.1(     285)      5.4(      373)

Missing Value         A                                     Variable=MMVSD        9.3I VENTRI SEPTAL THICKNESS
Count                39                                                                  (DIASTOLE)
% Count/Nobs       7.93
                                                                          Moments

Variable=MMLVPE         9.3G M-MODE LV-PET                   N                455   Sum Wgts         455
                                                            Mean        0.983516   Sum            447.5
                  Moments                                   Std Dev     0.193884   Variance    0.037591
N                291   Sum Wgts         291                  Skewness    0.898803   Kurtosis    2.172874
Mean        95.17869   Sum            27697                  USS           457.19   CSS         17.06637
Std Dev      14.5112   Variance    210.5749                  CV          19.71338   Std Mean    0.009089
Skewness    0.559347   Kurtosis    0.658367                  T:Mean=0    108.2043   Pr>|T|        0.0001
USS          2697231   CSS         61066.71                  Num ^= 0         455   Num > 0          455
CV          15.24627   Std Mean    0.850661                  M(Sign)        227.5   Pr>=|M|       0.0001
T:Mean=0    111.8879   Pr>|T|        0.0001                  Sgn Rank       51870   Pr>=|S|       0.0001
Num ^= 0         291   Num > 0          291
M(Sign)        145.5   Pr>=|M|       0.0001                             Quantiles(Def=5)
Sgn Rank       21243   Pr>=|S|       0.0001
                                                            100% Max           2        99%         1.5
               Quantiles(Def=5)                              75% Q3          1.1        95%         1.3
                                                             50% Med           1        90%         1.2
100% Max         150        99%         140                  25% Q1          0.9        10%         0.8
 75% Q3          105        95%         120                   0% Min         0.6         5%         0.7
 50% Med          95        90%         110                                             1%         0.6
 25% Q1           85        10%          80                  Range            1.4
  0% Min          64         5%          72                  Q3-Q1            0.2
                            1%          70                   Mode               1
Range             86
Q3-Q1             20                                                        Extremes
Mode              90
                                                              Lowest    Obs     Highest    Obs
                Extremes                                       0.6(     376)      1.5(      383)
                                                              0.6(     252)      1.6(      130)
  Lowest    Obs     Highest    Obs                            0.6(     207)      1.7(      258)
    64(     243)      130(      471)                          0.6(     203)      1.8(      227)
    70(     487)      135(      241)                          0.6(     134)        2(      151)
    70(     309)      140(      402)
    70(     267)      145(      449)                        Missing Value         A
    70(     233)      150(      373)                        Count                37
                                                            % Count/Nobs       7.52
Missing Value         A                                     ----------------------------------------------
Count               201                                     Variable=MMVSS        9.3J VENTRI SEPTAL THICKNESS
% Count/Nobs      40.85                                                                  (SYSTOLE)
----------------------------------------------
Variable=MMLVET         9.3H M-MODE LVET                                   Moments

                  Moments                                   N                429   Sum Wgts         429
N                282   Sum Wgts         282                  Mean        1.438462   Sum            617.1
Mean        307.3262   Sum            86666                  Std Dev     0.277233   Variance    0.076858
Std Dev      29.8041   Variance    888.2846                  Skewness    0.463907   Kurtosis   -0.02223
Skewness    -0.11349   Kurtosis    0.212492                  USS           920.57   CSS         32.89538
USS         26884344   CSS          249608                  CV          19.27291   Std Mean    0.013385
                                                            T:Mean=0    107.4685   Pr>|T|        0.0001
                                                            Num ^= 0         429   Num > 0          429
```

```
M(Sign)       214.5   Pr>=|M|     0.0001           75% Q3      1.8      95%      2.1
Sgn Rank    46117.5   Pr>=|S|     0.0001           50% Med     1.6      90%        2
                                                   25% Q1      1.4      10%      1.2
            Quantiles(Def=5)                        0% Min     0.9       5%      1.2
                                                                         1%      1.1
  100% Max     2.4      99%      2.1            Range         1.8
   75% Q3      1.6      95%        2            Q3-Q1         0.4
   50% Med     1.4      90%      1.8            Mode          1.6
   25% Q1      1.2      10%      1.1
    0% Min     0.8       5%        1                        Extremes
                         1%      0.9
Range         1.6                                  Lowest    Obs    Highest    Obs
Q3-Q1         0.4                                    0.9(     19)     2.2(     467)
Mode          1.5                                      1(    251)     2.3(     124)
                                                       1(     27)     2.4(       5)
            Extremes                                 1.1(    454)     2.6(     128)
                                                     1.1(    408)     2.7(     151)
   Lowest    Obs    Highest    Obs
     0.8(    360)     2.1(    475)              Missing Value        A
     0.8(     84)     2.2(     22)              Count               60
     0.9(    362)     2.2(    151)              % Count/Nobs      12.20
     0.9(    335)     2.2(    164)
     0.9(    305)     2.4(    383)              Variable=MMLA      9.3M LEFT ATRIAL DIMENSION

Missing Value        A                                       Moments
Count               63
% Count/Nobs      12.80                         N           478   Sum Wgts         478
                                               Mean    3.878452   Sum           1853.9
Variable=MMPWD        9.3K POSTERIOR WALL       Std Dev 0.628112   Variance    0.394524
THICKNESS (DIASTOLE)                           Skewness 0.196715   Kurtosis    0.228129
                                               USS      7378.45   CSS         188.1881
            Moments                            CV      16.19491   Std Mean    0.028729
                                               T:Mean=0 135.0005   Pr>|T|        0.0001
N           452   Sum Wgts         452         Num ^= 0     478   Num > 0          478
Mean     0.96615   Sum            436.7        M(Sign)      239   Pr>=|M|       0.0001
Std Dev 0.186294   Variance    0.034705        Sgn Rank 57240.5   Pr>=|S|       0.0001
Skewness 0.815017  Kurtosis    1.424918
USS       437.57   CSS          15.6521                    Quantiles(Def=5)
CV      19.28205   Std Mean    0.008763
T:Mean=0 110.2595  Pr>|T|        0.0001          100% Max     6       99%      5.4
Num ^= 0     452   Num > 0          452          75% Q3      4.3      95%        5
M(Sign)      226   Pr>=|M|       0.0001          50% Med     3.9      90%      4.7
Sgn Rank   51189   Pr>=|S|       0.0001          25% Q1      3.4      10%      3.1
                                                  0% Min     1.6       5%      2.9
            Quantiles(Def=5)                                          1%      2.5
                                               Range         4.4
  100% Max     1.7      99%      1.6            Q3-Q1         0.9
   75% Q3      1.1      95%      1.3            Mode          3.9
   50% Med       1      90%      1.2
   25% Q1      0.8      10%      0.8                        Extremes
    0% Min     0.6       5%      0.7
                         1%      0.6               Lowest    Obs    Highest    Obs
Range         1.1                                    1.6(     38)     5.4(     165)
Q3-Q1         0.3                                    2.4(    132)     5.4(     435)
Mode            1                                    2.4(    126)     5.8(     474)
                                                     2.5(    482)     5.9(      41)
            Extremes                                 2.5(    279)       6(     258)

   Lowest    Obs    Highest    Obs             Missing Value        A
     0.6(    468)     1.6(    173)             Count               14
     0.6(    454)     1.6(    214)             % Count/Nobs       2.85
     0.6(    318)     1.6(    287)             -------------------------------------------
     0.6(    296)     1.6(    467)             Variable=MMARD     9.3N AORTIC ROOT DIMENSION
     0.6(    292)     1.7(    258)
                                                           Moments
Missing Value        A
Count               40                          N           481   Sum Wgts         481
% Count/Nobs       8.13                         Mean    3.101247   Sum           1491.7
-------------------------------------------    Std Dev  0.36009   Variance    0.129665
Variable=MMPWS      9.3L POSTERIOR WALL THICKNESS  Skewness 0.199255  Kurtosis  0.004296
                       (SYSTOLE)                USS      4688.37   CSS         62.23925
                                               CV      11.61115   Std Mean    0.016419
            Moments                            T:Mean=0 188.885    Pr>|T|        0.0001
                                               Num ^= 0     481   Num > 0          481
N           432   Sum Wgts         432         M(Sign)    240.5   Pr>=|M|       0.0001
Mean    1.587269   Sum            685.7        Sgn Rank 57960.5   Pr>=|S|       0.0001
Std Dev 0.286105   Variance    0.081856
Skewness 0.42494   Kurtosis    0.137971                    Quantiles(Def=5)
USS      1123.67   CSS         35.27998
CV      18.02499   Std Mean    0.013765          100% Max     4.3     99%        4
T:Mean=0 115.3099  Pr>|T|        0.0001          75% Q3      3.3      95%      3.7
Num ^= 0     432   Num > 0          432          50% Med     3.1      90%      3.6
M(Sign)      216   Pr>=|M|       0.0001          25% Q1      2.8      10%      2.7
Sgn Rank   46764   Pr>=|S|       0.0001           0% Min     2.2       5%      2.5
                                                                     1%      2.3
            Quantiles(Def=5)                    Range         2.1
                                               Q3-Q1         0.5
  100% Max     2.7      99%      2.2            Mode            3
```

```
                                                        2.3(    461)    4.1(    366)
                    Extremes                            2.3(    441)    4.3(    123)

        Lowest     Obs     Highest    Obs          Missing Value          A
         2.2(    399)         4(    282)           Count                 11
         2.2(    197)         4(    382)           % Count/Nobs          2.24
         2.2(    115)       4.1(    135)
```

9.4 QUALITY OF M-MODE ECHO

ECMMQUAL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
? NO HARD COPY	3	0.6	3	0.6
FAIR	255	51.8	258	52.4
FAIR TO POOR	1	0.2	259	52.6
GOOD	82	16.7	341	69.3
INCOMPLETE	2	0.4	343	69.7
MISSING	7	1.4	350	71.1
MISSING, REASON	3	0.6	353	71.7
N/A	1	0.2	354	72.0
NO HARD COPY	4	0.8	358	72.8
POOR	132	26.8	490	99.6
SEE COMMENTS	1	0.2	491	99.8
TOO POOR TO MEAS	1	0.2	492	100.0

9.5 INTERPRETATION OF M-MODE ECHO

ECMMINT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
MISSING	1	.	.	.
MISSING,REASON	1	.	.	.
1-NORMAL	199	40.6	199	40.6
2-ABNORMAL	291	59.4	490	100.0

Frequency Missing = 2

9.5a M-MODE ECHO DIAGNOSIS

ECMMDX1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
? POST WALL MOTI	1	0.2	1	0.2
AO DILATION	5	1.0	6	1.2
AO VALVE THICKEN	1	0.2	7	1.4
ASD-SMALL	1	0.2	8	1.6
BICUSPID AO VALV	1	0.2	9	1.8
DEPRESSED LV FUN	1	0.2	10	2.0
DILATED AO ROOT	1	0.2	11	2.2
DILATION	1	0.2	12	2.4
HYPOKINETIC INFE	1	0.2	13	2.6
LA DILATION	86	17.5	99	20.1
LV DILATION	108	22.0	207	42.1
LV HYPERCONTRACT	1	0.2	208	42.3
LVH	36	7.3	244	49.6
LVH-BORDERLINE	1	0.2	245	49.8
MITRAL PROLAPSE	5	1.0	250	50.8
MITRAL PROLAPSE-	1	0.2	251	51.0
N/A	201	40.9	452	91.9
PERICARDIAL EFFU	10	2.0	462	93.9
POOR LV FUNCTION	1	0.2	463	94.1
REDUCED CONTRACT	1	0.2	464	94.3
RV DILATION	24	4.9	488	99.2
RVH	1	0.2	489	99.4
SEPTAL HYPERTROP	1	0.2	490	99.6
SMALL EFFUSION	1	0.2	491	99.8
THICKENED MITRAL	1	0.2	492	100.0

9.5b M-MODE ECHO DIAGNOSIS

ECMMDX2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
ABN SEPTAL MOTIO	1	0.2	1	0.2
ANTERIOR MITRAL	1	0.2	2	0.4
AO DILATION	1	0.2	3	0.6

```
DILATED AO ROOT          1      0.2           4      0.8
HEART FAILURE            1      0.2           5      1.0
LA DILATION             79     16.1          84     17.1
LA,LV,RV DILATIO         1      0.2          85     17.3
LV DILATION             38      7.7         123     25.0
LVH                     26      5.3         149     30.3
LVH-MILD                 1      0.2         150     30.5
MITRAL PROLAPSE          1      0.2         151     30.7
N/A                    318     64.6         469     95.3
PERICARDIAL EFFU         4      0.8         473     96.1
PROLONGED LV PET         1      0.2         474     96.3
REDUCED CONTRACT         2      0.4         476     96.7
RV DILATION             13      2.6         489     99.4
RVH                      3      0.6         492    100.0
```

9.5c M-MODE ECHO DIAGNOSIS

```
                                        Cumulative  Cumulative
ECMMDX3            Frequency   Percent   Frequency    Percent
-----------------------------------------------------------------
ABN SYSTOLIC FUN         1      0.2           1      0.2
DILATED AO ROOT          1      0.2           2      0.4
LA DILATION             18      3.7          20      4.1
LONG RV PRE-EJEC         1      0.2          21      4.3
LV DILATION              2      0.4          23      4.7
LV HYPERCONTRACT         1      0.2          24      4.9
LVH                     15      3.0          39      7.9
MITRAL PROLAPSE          1      0.2          40      8.1
N/A                    432     87.8         472     95.9
PERICARD EFFUSIO         1      0.2         473     96.1
REDUCED CONTRACT         5      1.0         478     97.2
RV DILATION             12      2.4         490     99.6
RVH                      1      0.2         491     99.8
SHORT LV EJECT T         1      0.2         492    100.0
```

9.5d M-MODE ECHO DIAGNOSIS

```
                                        Cumulative  Cumulative
ECMMDX4            Frequency   Percent   Frequency    Percent
-----------------------------------------------------------------
AO DILATION              2      0.4           2      0.4
LV & RV DILATION         1      0.2           3      0.6
LVH                      9      1.8          12      2.4
N/A                    474     96.3         486     98.8
POOR CONTRACTILI         1      0.2         487     99.0
PROLONGED LV PET         1      0.2         488     99.2
PROLONGED RVPET          1      0.2         489     99.4
REDUCED CONTRACT         1      0.2         490     99.6
RV DILATION              2      0.4         492    100.0
```

9.6 M-MODE ECHO READER

```
                             Cumulative  Cumulative
ECMMINTR  Frequency  Percent  Frequency   Percent                    DELETED
----------------------------------------------------------
WC          492     100.0       492      100.0
```

M-MODE ECHO COMMENTS

```
                                        Cumulative  Cumulative
ECMMCOM           Frequency   Percent   Frequency    Percent
-----------------------------------------------------------------
CHRONIC VOLUME O         1      0.2           1      0.2
NO ECG RECORDED          1      0.2           2      0.4
NO TRACINGS              1      0.2           3      0.6
NONE                   488     99.2         491     99.8
TIME INTERVALS I         1      0.2         492    100.0
```

Variable=DORR   10.1 DOPPLER R-R INTERVAL

```
            Moments

 N              480  Sum Wgts        480
 Mean       827.6938  Sum          397293
 Std Dev    133.7377  Variance    17885.78
 Skewness   0.512462  Kurtosis     0.33884
 USS         3.374E8  CSS          8567288
```

```
         CV          16.15788  Std Mean    6.104264
         T:Mean=0    135.5927  Pr>|T|        0.0001
         Num ^= 0         480  Num > 0          480
         M(Sign)          240  Pr>=|M|       0.0001
         Sgn Rank       57720  Pr>=|S|       0.0001


                  Quantiles(Def=5)

         100% Max        1280     99%        1224
          75% Q3        907.5     95%      1057.5
          50% Med         815     90%      1002.5
          25% Q1          730     10%         672
           0% Min         525      5%         629
                                   1%         560
         Range           755
         Q3-Q1         177.5
         Mode            800


                     Extremes

           Lowest    Obs      Highest    Obs
             525(    467)      1224(      38)
             526(    177)      1250(     299)
             530(     51)      1250(     436)
             540(    235)      1260(     475)
             560(    295)      1280(     232)


             12 Missing Values
         Missing Value        .        A
         Count                1       11
         % Count/Nobs      0.20     2.24
         % Count/Nmiss     8.33    91.67
```

Variable=DOMPKE   10.2A DOPPLER PEAK E

```
                     Moments

         N               478  Sum Wgts        478
         Mean        85.09414  Sum           40675
         Std Dev     22.21926  Variance    493.6955
         Skewness    0.877013  Kurtosis    1.215571
         USS          3696697  CSS         235492.8
         CV          26.11139  Std Mean    1.016285
         T:Mean=0    83.73056  Pr>|T|        0.0001
         Num ^= 0         478  Num > 0          478
         M(Sign)          239  Pr>=|M|       0.0001
         Sgn Rank     57240.5  Pr>=|S|       0.0001

                  Quantiles(Def=5)

         100% Max         173     99%         157
          75% Q3           97     95%         126
          50% Med        82.5     90%         115
          25% Q1           69     10%          60
           0% Min          39      5%          54
                                   1%          45
         Range           134
         Q3-Q1            28
         Mode             60

                     Extremes

           Lowest    Obs      Highest    Obs
              39(    101)       157(     158)
              42(    304)       160(     377)
              44(    379)       160(     421)
              44(    239)       171(     337)
              45(    451)       173(     459)

         Missing Value        A
         Count               14
         % Count/Nobs      2.85
```

**Variable=DOMVIE   10.2B DOPPLER VELOCITY
                               INTEGRAL E**

```
                     Moments

         N               348  Sum Wgts        348
         Mean         12.4069  Sum          4317.6
         Std Dev     4.490561  Variance    20.16514
         Skewness    0.909837  Kurtosis    2.234561
         USS         60565.32  CSS         6997.303
         CV          36.19407  Std Mean    0.240719
         T:Mean=0    51.54092  Pr>|T|        0.0001
```

```
         Num ^= 0         348  Num > 0          348
         M(Sign)          174  Pr>=|M|       0.0001
         Sgn Rank       30363  Pr>=|S|       0.0001


                  Quantiles(Def=5)

         100% Max        36.3     99%          24
          75% Q3           15     95%          20
          50% Med       11.95     90%        18.7
          25% Q1         9.25     10%         7.4
           0% Min         2.5      5%         6.6
                                   1%           4
         Range          33.8
         Q3-Q1          5.75
         Mode             11


                     Extremes

           Lowest    Obs      Highest    Obs
             2.5(    183)        24(      39)
             2.9(    468)        24(     346)
             3.2(    209)        27(     459)
               4(    451)        29(     195)
               4(    223)      36.3(     133)

         Missing Value        A
         Count              144
         % Count/Nobs     29.27
```

Variable=DOMPKA   10.2C DOPPLER PEAK A

```
                     Moments

         N               474  Sum Wgts        474
         Mean        64.33122  Sum           30493
         Std Dev     19.71118  Variance    388.5307
         Skewness    0.887652  Kurtosis     1.24904
         USS          2145427  CSS         183775
         CV          30.64015  Std Mean    0.905365
         T:Mean=0     71.0556  Pr>|T|        0.0001
         Num ^= 0         474  Num > 0          474
         M(Sign)          237  Pr>=|M|       0.0001
         Sgn Rank     56287.5  Pr>=|S|       0.0001

                  Quantiles(Def=5)

         100% Max         151     99%         126
          75% Q3           76     95%         100
          50% Med          61     90%          90
          25% Q1           50     10%          42
           0% Min          25      5%          38
                                   1%          29
```

```
Range            126                          |         Lowest    Obs    Highest    Obs
Q3-Q1             26                          |            62(     99)    229(    337)
Mode              60                          |            65(    414)    233(    336)
                                              |            67(    228)    267(    477)
            Extremes                          |            68(    240)    300(    151)
                                              |            69(    239)    369(    152)
       Lowest    Obs    Highest    Obs        |
          25(    351)    126(    134)         | Missing Value        A
          25(     74)    129(     12)         | Count                13
          28(    436)    135(    336)         | % Count/Nobs       2.64
          28(    282)    136(    459)         | ------------------------------------------
          29(    323)    151(    288)         | Variable=DOLVPE        10.2F DOPPLER LV-PET
                                              |
Missing Value        A                        |              Moments
Count                18                        |
% Count/Nobs       3.66                        | N              388    Sum Wgts         388
------------------------------------------    | Mean       99.71134    Sum            38688
Variable=DOMVIA        10.2D DOPPLER VELOCITY | Std Dev    16.77682    Variance     281.4617
                       INTEGRAL A             | Skewness   0.307105    Kurtosis      0.11309
                                              | USS         3966558    CSS          108925.7
            Moments                           | CV         16.82539    Std Mean     0.851714
                                              | T:Mean=0   117.0714    Pr>|T|         0.0001
N              342    Sum Wgts         342     | Num ^= 0        388    Num > 0          388
Mean       6.916374    Sum           2365.4    | M(Sign)         194    Pr>=|M|        0.0001
Std Dev    3.057009    Variance     9.345303   | Sgn Rank       37733    Pr>=|S|        0.0001
Skewness   1.226695    Kurtosis     1.90475    |
USS        19546.74    CSS          3186.748   |           Quantiles(Def=5)
CV         44.19959    Std Mean     0.165304   |
T:Mean=0   41.84031    Pr>|T|         0.0001   | 100% Max        155       99%         145
Num ^= 0        342    Num > 0          342    |  75% Q3        110       95%         125
M(Sign)         171    Pr>=|M|        0.0001   |  50% Med       100       90%         120
Sgn Rank     29326.5    Pr>=|S|        0.0001  |  25% Q1         88       10%          80
                                              |   0% Min        48        5%          75
           Quantiles(Def=5)                   |                          1%          65
                                              | Range           107
100% Max       20.1       99%          17      | Q3-Q1            22
 75% Q3         8.1       95%          13      | Mode            100
 50% Med        6.1       90%          11      |
 25% Q1         4.6       10%         3.8       |             Extremes
  0% Min          2        5%         3.1       |
                          1%         2.5       |        Lowest    Obs    Highest    Obs
Range           18.1                           |           48(    100)    145(    421)
Q3-Q1            3.5                           |           62(    258)    145(    449)
Mode               6                           |           64(    248)    150(    241)
                                              |           65(    376)    155(    361)
            Extremes                          |           68(    243)    155(    373)
                                              |
       Lowest    Obs    Highest    Obs         | Missing Value        A
           2(    280)     16(    215)          | Count               104
           2(    209)     17(    223)          | % Count/Nobs      21.14
         2.2(    436)     18(     12)          |
         2.5(     84)     18(    288)          |
         2.7(    188)   20.1(    485)          | Variable=DOLVET        10.2G DOPPLER LVET
                                              |
Missing Value        A                        |              Moments
Count               150                        |
% Count/Nobs      30.49                        | N              453    Sum Wgts         453
                                              | Mean       301.3687    Sum           136520
Variable=DOLVPV        10.2E DOPPLER LV PEAK  | Std Dev    31.21299    Variance     974.251
VELOCITY                                      | Skewness   -0.39382    Kurtosis     2.919323
                                              | USS        41583210    CSS          440361.4
            Moments                           | CV         10.35708    Std Mean     1.466514
                                              | T:Mean=0      205.5    Pr>|T|         0.0001
N              479    Sum Wgts         479     | Num ^= 0        453    Num > 0          453
Mean       123.2422    Sum           59033     | M(Sign)        226.5    Pr>=|M|        0.0001
Std Dev    31.48274    Variance     991.163    | Sgn Rank     51415.5    Pr>=|S|        0.0001
Skewness   1.972402    Kurtosis     10.03028   |
USS         7749131    CSS          473775.9   |           Quantiles(Def=5)
CV         25.54543    Std Mean     1.438483   |
T:Mean=0   85.67509    Pr>|T|         0.0001   | 100% Max       390       99%         380
Num ^= 0        479    Num > 0          479    |  75% Q3        320       95%         350
M(Sign)        239.5    Pr>=|M|        0.0001  |  50% Med       300       90%         340
Sgn Rank       57480    Pr>=|S|        0.0001  |  25% Q1        280       10%         265
                                              |   0% Min       110        5%         255
           Quantiles(Def=5)                   |                          1%         230
                                              | Range           280
100% Max       369       99%         229       | Q3-Q1            40
 75% Q3        140       95%         176       | Mode            280
 50% Med       120       90%         160       |
 25% Q1        102       10%          90       |             Extremes
  0% Min        62        5%          84       |
                          1%          69       |        Lowest    Obs    Highest    Obs
Range           307                            |          110(    278)    380(    307)
Q3-Q1            38                             |          200(     50)    380(    368)
Mode            120                             |          220(    207)    385(    393)
                                              |          225(     56)    390(    299)
            Extremes                          |          230(    258)    390(    474)
```

```
Missing Value        A                                        RV-PET
Count                39
% Count/Nobs       7.93                                     Moments
-------------------------------------------
Variable=DOLVAT    10.2H DOPPLER ACCELERATION   N         365  Sum Wgts          365
TIME                                            Mean   93.62466  Sum             34173
                                                Std Dev 16.63453 Variance     276.7076
                                                Skewness 0.234879 Kurtosis    0.235663
                Moments                         USS     3300157  CSS          100721.6
                                                CV     17.76725  Std Mean     0.870691
     N              417  Sum Wgts          417  T:Mean=0 107.5291 Pr>|T|        0.0001
     Mean      90.75779  Sum             37846  Num ^= 0    365  Num > 0         365
     Std Dev   21.62222  Variance      467.5205 M(Sign)   182.5  Pr>=|M|       0.0001
     Skewness  2.146921  Kurtosis     18.57471  Sgn Rank 33397.5 Pr>=|S|       0.0001
     USS        3629308  CSS          194488.5
     CV        23.82409  Std Mean     1.058845             Quantiles(Def=5)
     T:Mean=0  85.71397  Pr>|T|         0.0001
     Num ^= 0       417  Num > 0          417   100% Max       160     99%       130
     M(Sign)      208.5  Pr>=|M|        0.0001   75% Q3         105     95%       120
     Sgn Rank   43576.5  Pr>=|S|        0.0001   50% Med         95     90%       115
                                                 25% Q1          80     10%        72
             Quantiles(Def=5)                     0% Min         50      5%        67
                                                                         1%        60
     100% Max       295     99%       140        Range          110
      75% Q3        100     95%       128        Q3-Q1           25
      50% Med        90     90%       115        Mode            90
      25% Q1         80     10%        68
       0% Min        25      5%        60                     Extremes
                            1%        45
     Range          270                          Lowest    Obs    Highest    Obs
     Q3-Q1           20                             50(   158)    130(   424)
     Mode            80                             56(   218)    130(   446)
                                                    57(   258)    135(   327)
               Extremes                            60(   487)    145(    60)
                                                    60(   284)    160(   449)
     Lowest    Obs    Highest    Obs
        25(   377)    140(   383)            Missing Value        A
        40(   457)    140(   384)            Count               127
        40(   399)    145(   393)            % Count/Nobs      25.81
        45(   154)    150(   227)
        45(    49)    295(   278)            Variable=DORVET       10.2K DOPPLER PULMONARY
                                                                           RVET
Missing Value        A
Count                75                                      Moments
% Count/Nobs       15.24
                                                N         434  Sum Wgts          434
                                                Mean   330.5161  Sum            143444
Variable=DOPPKV    10.2I DOPPLER PULMONARY      Std Dev 37.65286 Variance     1417.738
                     PEAK VELOCITY              Skewness -0.27206 Kurtosis    0.383551
                                                USS     48024436  CSS         613880.4
                Moments                         CV     11.39214  Std Mean     1.807395
                                                T:Mean=0 182.8688 Pr>|T|        0.0001
     N              459  Sum Wgts          459  Num ^= 0    434  Num > 0         434
     Mean      89.27015  Sum             40975  M(Sign)     217  Pr>=|M|       0.0001
     Std Dev   25.08573  Variance      629.2937 Sgn Rank 47197.5 Pr>=|S|       0.0001
     Skewness  2.000653  Kurtosis     10.27952
     USS        3946061  CSS          288216.5            Quantiles(Def=5)
     CV        28.10091  Std Mean     1.170901
     T:Mean=0  76.24054  Pr>|T|         0.0001  100% Max       440     99%       410
     Num ^= 0       459  Num > 0          459    75% Q3        356     95%       390
     M(Sign)      229.5  Pr>=|M|        0.0001   50% Med        330     90%       376
     Sgn Rank     52785  Pr>=|S|        0.0001   25% Q1         308     10%       281
                                                  0% Min        200      5%       268
             Quantiles(Def=5)                                           1%       230
                                                 Range          240
     100% Max       279     99%       165        Q3-Q1           48
      75% Q3        101     95%       128        Mode           320
      50% Med        86     90%       118
      25% Q1         72     10%        63                     Extremes
       0% Min        44      5%        58
                            1%        45        Lowest    Obs    Highest    Obs
     Range          235                            200(    50)    410(   174)
     Q3-Q1           29                            200(    47)    410(   370)
     Mode           100                            220(   214)    416(    14)
                                                   225(   348)    430(   474)
               Extremes                            230(    51)    440(   491)

     Lowest    Obs    Highest    Obs         Missing Value        A
        44(   325)    165(   175)            Count                58
        44(    36)    180(   457)            % Count/Nobs      11.79
        45(   361)    197(   254)            -------------------------------------------
        45(   318)    245(   174)            Variable=DOACCT      10.2L DOPPLER PULMONARY
        45(   302)    279(   173)                                         ACCEL TIME

Missing Value        A                                      Moments
Count                33
% Count/Nobs       6.71                          N         397  Sum Wgts          397
-------------------------------------------     Mean   132.2972  Sum             52522
Variable=DORVPE    10.2J DOPPLER PULMONARY
```

```
Std Dev      34.64666  Variance   1200.391        Range          186
Skewness     0.001955  Kurtosis   -0.29664        Q3-Q1           45
USS           7423870  CSS        475354.9        Mode           140
CV            26.1885  Std Mean   1.738866
T:Mean=0     76.08247  Pr>|T|       0.0001                  Extremes
Num ^= 0          397  Num > 0         397
M(Sign)         198.5  Pr>=|M|      0.0001        Lowest   Obs     Highest   Obs
Sgn Rank      39501.5  Pr>=|S|      0.0001          44(    197)     210(    139)
                                                    55(     41)     210(    263)
             Quantiles(Def=5)                       60(    175)     210(    370)
                                                    60(    144)     225(    367)
 100% Max         230      99%       210            60(     75)     230(    274)
  75% Q3          155      95%       190
  50% Med         135      90%       179        Missing Value        A
  25% Q1          110      10%        85        Count               95
   0% Min          44       5%        70        % Count/Nobs      19.31
                            1%        60
Variable=DOTRPV        10.2M DOPPLER TRICUSPID PEAK VELOCITY

                    Moments

N                 102  Sum Wgts        102
Mean         2.289216  Sum           233.5
Std Dev      0.489879  Variance   0.239982
Skewness     -0.08201  Kurtosis   1.033367
USS            558.77  CSS        24.23814
CV           21.39943  Std Mean   0.048505
T:Mean=0      47.1952  Pr>|T|       0.0001
Num ^= 0          102  Num > 0         102
M(Sign)            51  Pr>=|M|      0.0001
Sgn Rank       2626.5  Pr>=|S|      0.0001

             Quantiles(Def=5)

 100% Max         3.7      99%       3.6
  75% Q3          2.6      95%       3.1
  50% Med         2.3      90%       2.8
  25% Q1            2      10%       1.7
   0% Min         0.9       5%       1.4
                            1%         1
Range             2.8
Q3-Q1             0.6
Mode              2.5

                 Extremes

      Lowest    Obs     Highest    Obs
        0.9(     69)      3.1(    174)
          1(     52)      3.3(    288)
        1.2(    247)      3.3(    351)
        1.3(    452)      3.6(    396)
        1.3(    221)      3.7(    373)

      390 Missing Values
Missing Value         A        C
Count               389        1
% Count/Nobs      79.07     0.20
% Count/Nmiss     99.74     0.26
```

10.3 DOPPLER ECHO QUALITY

| | | | Cumulative | Cumulative |
ECDOQUAL	Frequency	Percent	Frequency	Percent
? NO HARD COPY	4	0.8	4	0.8
FAIR	245	49.8	249	50.6
GOOD	149	30.3	398	80.9
GOOD (NO EKG)	1	0.2	399	81.1
INCOMPLETE	1	0.2	400	81.3
MISSING	24	4.9	424	86.2
MISSING, REASON	4	0.8	428	87.0
N/A	4	0.8	432	87.8
NO HARD COPY	4	0.8	436	88.6
NOT SEEN	1	0.2	437	88.8
POOR	55	11.2	492	100.0

10.4 DOPPLER INTERPRETATION

| | | | Cumulative | Cumulative | |
ECDOINT	Frequency	Percent	Frequency	Percent	**DELETED**
MISSING	1	.	.	.	
MISSING,REASON	2	.	.	.	
NOT APPLICABLE	3	.	.	.	

| 1-NORMAL | 305 | 62.8 | 305 | 62.8 |
| 2-ABNORMAL | 181 | 37.2 | 486 | 100.0 |

Frequency Missing = 6

10.5a DOPPLER ECHO DIAGNOSIS

ECDODX1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
? ASD-SMALL	1	0.2	1	0.2
? DIAST DYSF	1	0.2	2	0.4
? PULMONARY HYPE	3	0.6	5	1.0
?DIAST DYSF(E/A	1	0.2	6	1.2
?PULMONARY HYPER	1	0.2	7	1.4
ABN DIASTOLIC FU	1	0.2	8	1.6
ABN SYSTOLIC FUN	1	0.2	9	1.8
AO INSUFFICIENCY	5	1.0	14	2.8
AO STENOSIS-MILD	2	0.4	16	3.3
AO STENOSIS-MOD	1	0.2	17	3.5
AR-MILD	5	1.0	22	4.5
AR-TRACE	1	0.2	23	4.7
BUNDLE BRANCH BL	1	0.2	24	4.9
DECR PULM ACCEL	4	0.8	28	5.7
DIAST DYSF	2	0.4	30	6.1
DIAST DYSF (ABNO	1	0.2	31	6.3
DIAST DYSF (E/A	70	14.2	101	20.5
DIAST DYSF (E/A=	2	0.4	103	20.9
ELEVATED RV PRES	1	0.2	104	21.1
INCR LV OUTFLOW	1	0.2	105	21.3
INCR LV PEAK VEL	1	0.2	106	21.5
INCR LV PRE-EJEC	2	0.4	108	22.0
INCR MITRAL PEAK	1	0.2	109	22.2
INCR MITRAL VELO	1	0.2	110	22.4
INCR PEAK E	2	0.4	112	22.8
INCR PEAK E & A	1	0.2	113	23.0
INCR PULM VELOCI	1	0.2	114	23.2
LONG LV PRE-EJEC	1	0.2	115	23.4
LONG PRE-EJECT T	1	0.2	116	23.6
LONG PULM PRE-EJ	2	0.4	118	24.0
MITRAL INSUFFICI	1	0.2	119	24.2
MR	7	1.4	126	25.6
MR-MILD	24	4.9	150	30.5
MR-MILD TO MOD	2	0.4	152	30.9
MR-MOD TO SEVERE	1	0.2	153	31.1
MR-MODERATE	3	0.6	156	31.7
MR-SEVERE	4	0.8	160	32.5
MR-TRACE	2	0.4	162	32.9
N/A	311	63.2	473	96.1
NO A WAVE DT ARR	1	0.2	474	96.3
PROLONGED LV PET	2	0.4	476	96.7
PROLONGED RVPET	1	0.2	477	97.0
PULMONARY HYPERT	2	0.4	479	97.4
PULMONIC STENOSI	2	0.4	481	97.8
RAPID PULM ACCEL	1	0.2	482	98.0
SHORT EJECT TIME	1	0.2	483	98.2
SHORT LV EJECT T	1	0.2	484	98.4
SHORT PULM ACCEL	2	0.4	486	98.8
SHORT RV EJECT T	2	0.4	488	99.2
TR-MILD	2	0.4	490	99.6
TR-SEVERE	2	0.4	492	100.0

10.5b DOPPLER ECHO DIAGNOSIS

ECDODX2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
ABN DIASTOLIC FU	1	0.2	1	0.2
ABN SYSTOLIC FUN	1	0.2	2	0.4
AO INSUFFICIENCY	4	0.8	6	1.2
AO STENOSIS-MILD	1	0.2	7	1.4
AR-MILD	2	0.4	9	1.8
BUNDLE BRANCH BL	1	0.2	10	2.0
DCR LV OUTFLOW A	1	0.2	11	2.2
DECR PULM ACCEL	7	1.4	18	3.7
DIAST DYSF (E/A	7	1.4	25	5.1
ELEVATED RV PRES	2	0.4	27	5.5
INCR AO VELOCITY	1	0.2	28	5.7
INCR LV ACCEL TI	1	0.2	29	5.9
INCR LV OUTFLOW	1	0.2	30	6.1
INCR LV PRE-EJEC	1	0.2	31	6.3

```
INCR RV PRE-EJEC         1       0.2        32         6.5
LONG RV PRE-EJEC         1       0.2        33         6.7
MITRAL INSUFFICI         1       0.2        34         6.9
MR                       1       0.2        35         7.1
MR-MILD                  7       1.4        42         8.5
```

10.5b DOPPLER ECHO DIAGNOSIS (CONTINUED)

ECDODX2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
MR-MILD TO MOD	1	0.2	43	8.7
N/A	432	87.8	475	96.5
PULM REGURG-SEVE	1	0.2	476	96.7
PULMONARY HYPERT	3	0.6	479	97.4
SHORT LV EJECT T	4	0.8	483	98.2
SHORT RV ACCEL T	2	0.4	485	98.6
SHORT RV EJECT T	1	0.2	486	98.8
TR-MILD	4	0.8	490	99.6
TR-MODERATE	1	0.2	491	99.8
TR-SEVERE	1	0.2	492	100.0

10.5c DOPPLER ECHO DIAGNOSIS

ECDODX3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
? PULMONARY HYPE	1	0.2	1	0.2
CHF	1	0.2	2	0.4
DECR PULM ACCEL	2	0.4	4	0.8
DECR RV ACCEL TI	1	0.2	5	1.0
DIAST DYSF (E/A	2	0.4	7	1.4
INCR LV OUTFLOW	1	0.2	8	1.6
INCR PULM VELOCI	1	0.2	9	1.8
INCR RV PRESSURE	1	0.2	10	2.0
MR-MILD	1	0.2	11	2.2
N/A	476	96.7	487	99.0
PROLONGED LV PET	1	0.2	488	99.2
PROLONGED RV PET	1	0.2	489	99.4
SHORT RV ACCEL T	1	0.2	490	99.6
TR-MILD	2	0.4	492	100.0

10.5d DOPPLER ECHO DIAGNOSIS

ECDODX4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
DECR PULM ACCEL	1	0.2	1	0.2
INCR PULM TIME I	1	0.2	2	0.4
N/A	487	99.0	489	99.4
PULMONARY HYPERT	2	0.4	491	99.8
SHORT RV EJECT T	1	0.2	492	100.0

10.5 DOPPLER ECHO READER

ECDOINTR	Frequency	Percent	Cumulative Frequency	Cumulative Percent		**DELETED**
WC	492	100.0	492	100.0		

DOPPLER ECHO COMMENTS

ECDOCOMM	Frequency	Percent	Cumulative Frequency	Cumulative Percent
LIMITED STUDY	1	0.2	1	0.2
NO ECG FOR PRE-E	1	0.2	2	0.4
NO TRACINGS SENT	4	0.8	6	1.2
NONE	483	98.2	489	99.4
PULMONARY MEASUR	1	0.2	490	99.6
STANDARDIZATION	1	0.2	491	99.8
TRACE MR	1	0.2	492	100.0

ECHO INSTITUTIONAL REPORTS RECEIVED

ECIRPT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
MISSING,REASON	41	.	.	.
1-NO	66	14.6	66	14.6
2-YES	385	85.4	451	100.0

Frequency Missing = 41

CENTRAL QC REVIEW RESULTS

QCREVIEW	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 NOT REVIEWED	16	3.3	16	3.3
2 REVIEWED,AGREE	456	92.7	472	95.9
3 REVIEWED,DISAG	20	4.1	492	100.0

CENTRAL REVIEW DIFFERENCES RESOLVED

RESOLVED	Frequency	Percent	Cumulative Frequency	Cumulative Percent
MISSING	16	.	.	.
NOT APPLICABLE	456	.	.	.
2-YES	20	100.0	20	100.0

Frequency Missing = 472

QUALITY CONTROL FLAG

QCFLAG	Frequency	Percent	Cumulative Frequency	Cumulative Percent
2-QC DONE	492	100.0	492	100.0

DELETED

 # OF DISCREPENCIES BTWN ENTRY & QC

DELETED
DELETED

QCERR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	372	75.6	372	75.6
1	74	15.0	446	90.7
2	34	6.9	480	97.6
3	7	1.4	487	99.0
4	3	0.6	490	99.6
5	1	0.2	491	99.8
7	1	0.2	492	100.0

EDIT FLAG

EFLAG	Frequency	Percent	Cumulative Frequency	Cumulative Percent
3-EDITS, ALL UPD	20	4.1	20	4.1
.	472	95.9	492	100.0

DELETED