

Simple data listing (first 5 obs)

| SUBJID | LVMecho | LVMindex | EF | DiastLVdia | SystLVdia | RWT | LVH | EF3cat | FS |
|---------|---------|----------|----|------------|-----------|-----|-----|--------|----|
| J521969 | . | . | . | . | . | . | . | . | . |
| J558060 | . | . | . | . | . | . | . | . | . |
| J100180 | . | . | 65 | . | . | . | . | Normal | . |
| J100537 | . | . | 65 | . | . | . | . | Normal | . |
| J100757 | . | . | 65 | . | . | . | . | Normal | . |

Univariate summary stats: categorical

The FREQ Procedure

| Left Ventricular Hypertrophy | | | | |
|------------------------------|-----------|---------|----------------------|--------------------|
| LVH | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
| . | 1905 | 35.90 | 1905 | 35.90 |
| Absent | 3144 | 59.25 | 5049 | 95.16 |
| Present | 257 | 4.84 | 5306 | 100.00 |

| Ejection Fraction Categorization | | | | |
|----------------------------------|-----------|---------|----------------------|--------------------|
| EF3cat | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
| . | 253 | 4.77 | 253 | 4.77 |
| Normal | 3527 | 66.47 | 3780 | 71.24 |
| Preserved | 1477 | 27.84 | 5257 | 99.08 |
| Reduced | 49 | 0.92 | 5306 | 100.00 |

| Fractional Shortening | | | | |
|-----------------------|-----------|---------|----------------------|--------------------|
| FS | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
| . | 1902 | 35.85 | 1902 | 35.85 |
| Normal | 3226 | 60.80 | 5128 | 96.65 |
| Abnormal | 178 | 3.35 | 5306 | 100.00 |

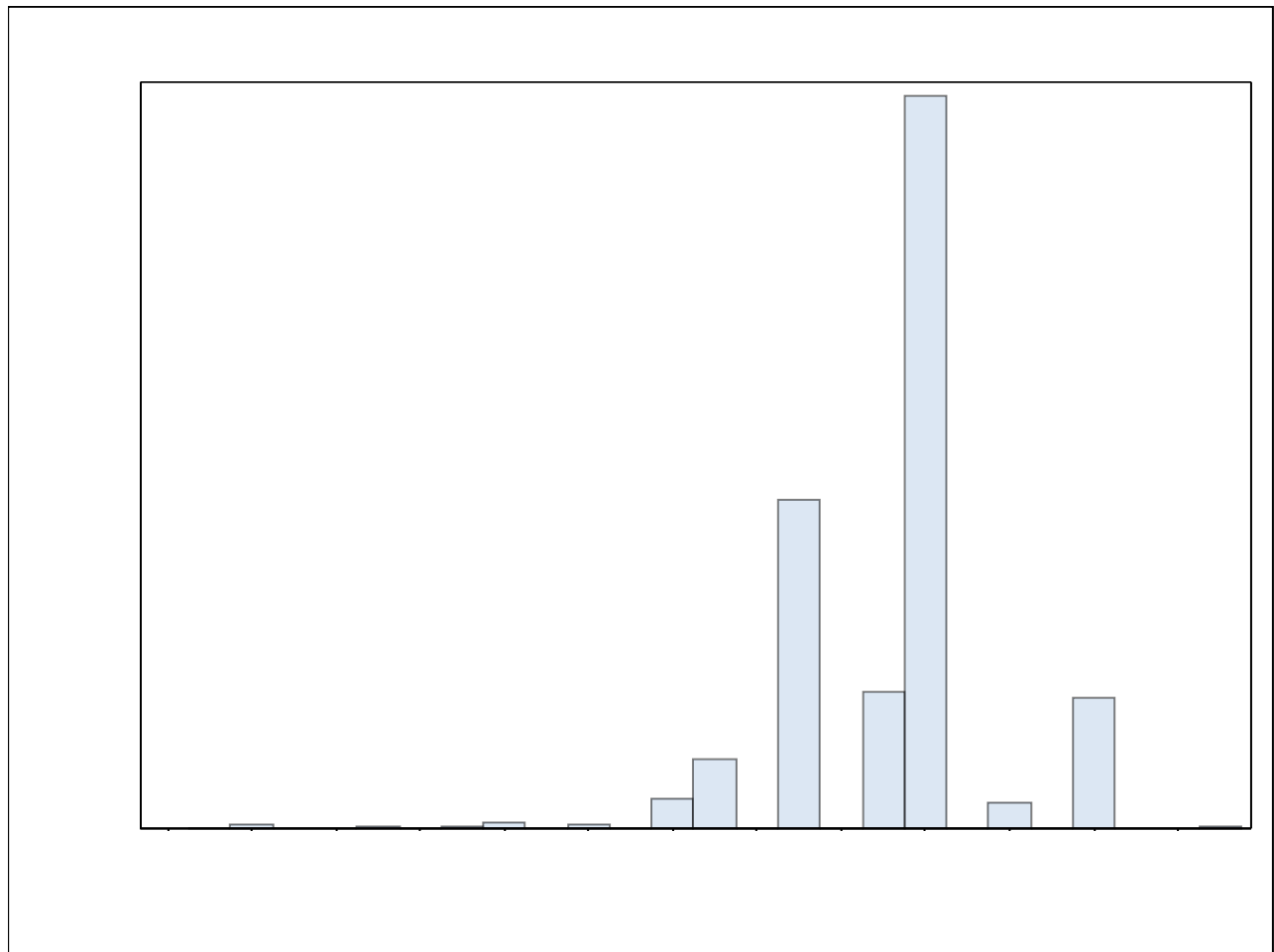
Univariate summary stats: continuous

The MEANS Procedure

| Variable | Label | N | N Miss | Mean | Std Dev | Minimum | Maximum |
|------------|---------------------------------------------|------|--------|--------|---------|---------|---------|
| LVMecho | Left Ventricular Mass (g) from Echo | 3406 | 1900 | 149.04 | 41.63 | 66.40 | 384.23 |
| LVMindex | Left Ventricular Mass Indexed by Height^2.7 | 3401 | 1905 | 36.09 | 9.88 | 16.41 | 106.81 |
| EF | Ejection Fraction | 5053 | 253 | 61.80 | 7.65 | 10.00 | 85.00 |
| DiastLVdia | Diastolic LV Diameter (mm) | 3408 | 1898 | 49.59 | 4.51 | 35.50 | 78.60 |
| SystLVdia | Systolic LV Diameter (mm) | 3404 | 1902 | 30.25 | 4.93 | 10.70 | 71.30 |
| RWT | Relative Wall Thickness | 3406 | 1900 | 0.35 | 0.06 | 0.15 | 0.90 |

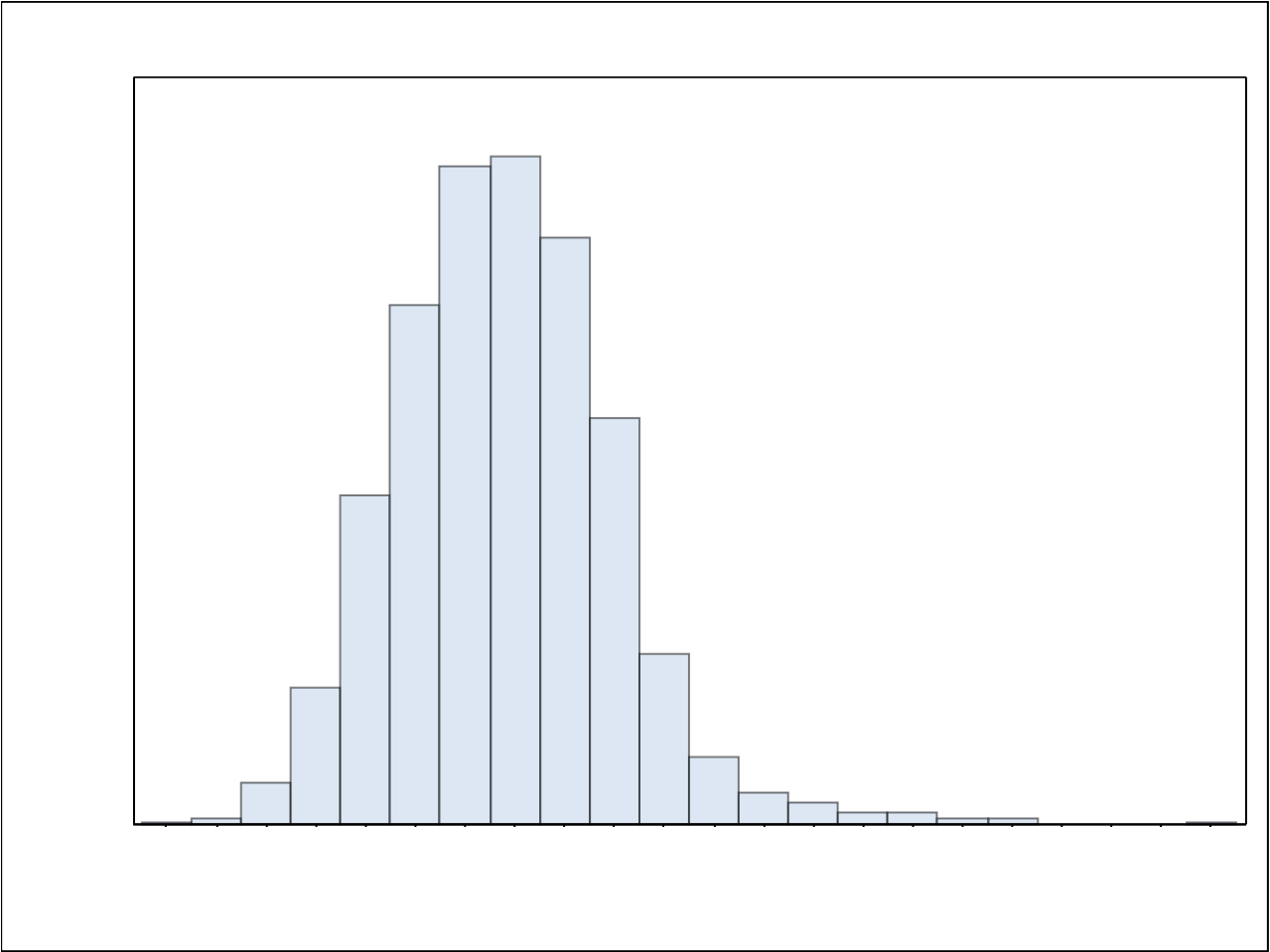
Univariate summary stats: continuous

The UNIVARIATE Procedure



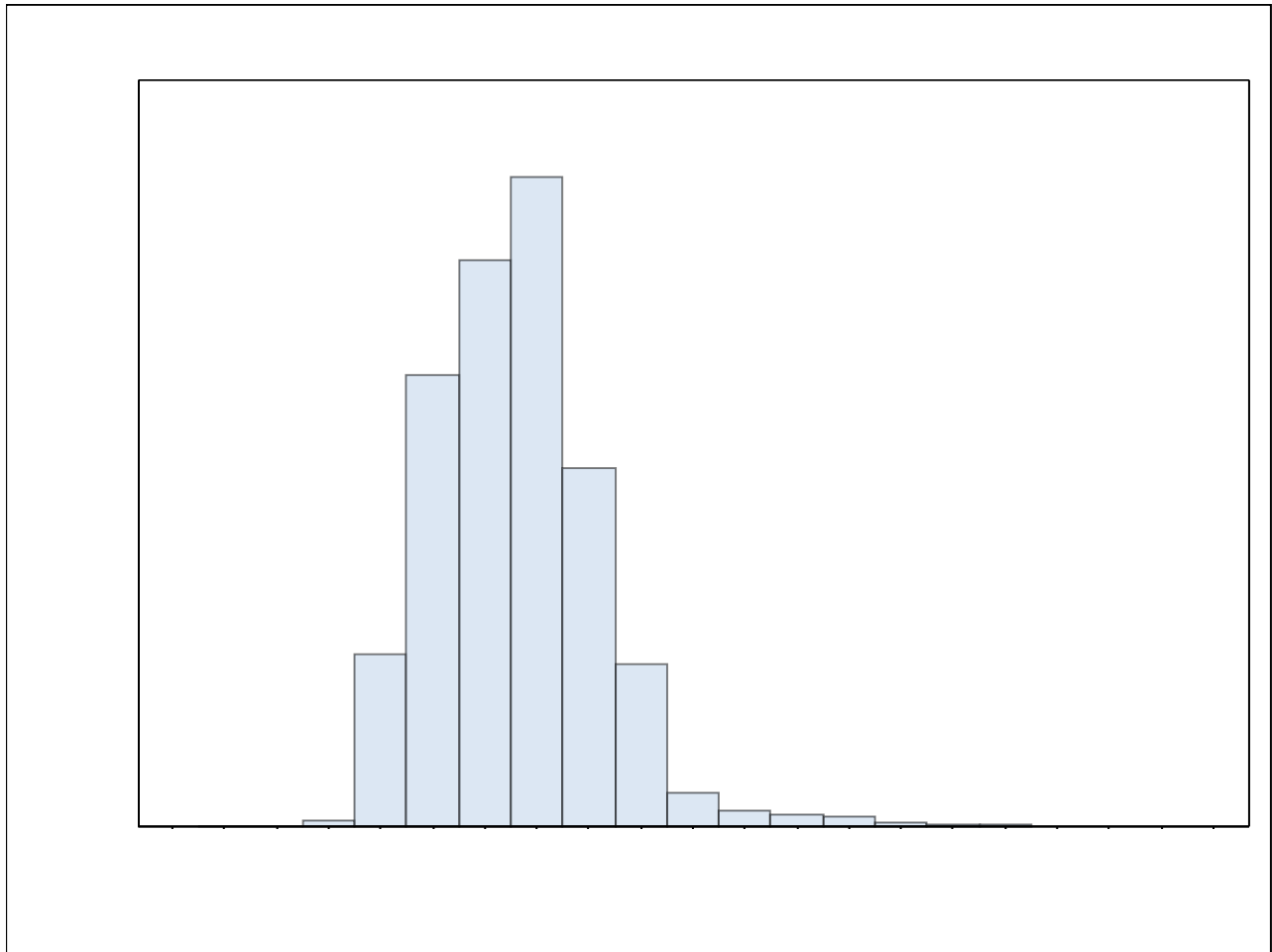
Univariate summary stats: continuous

The UNIVARIATE Procedure



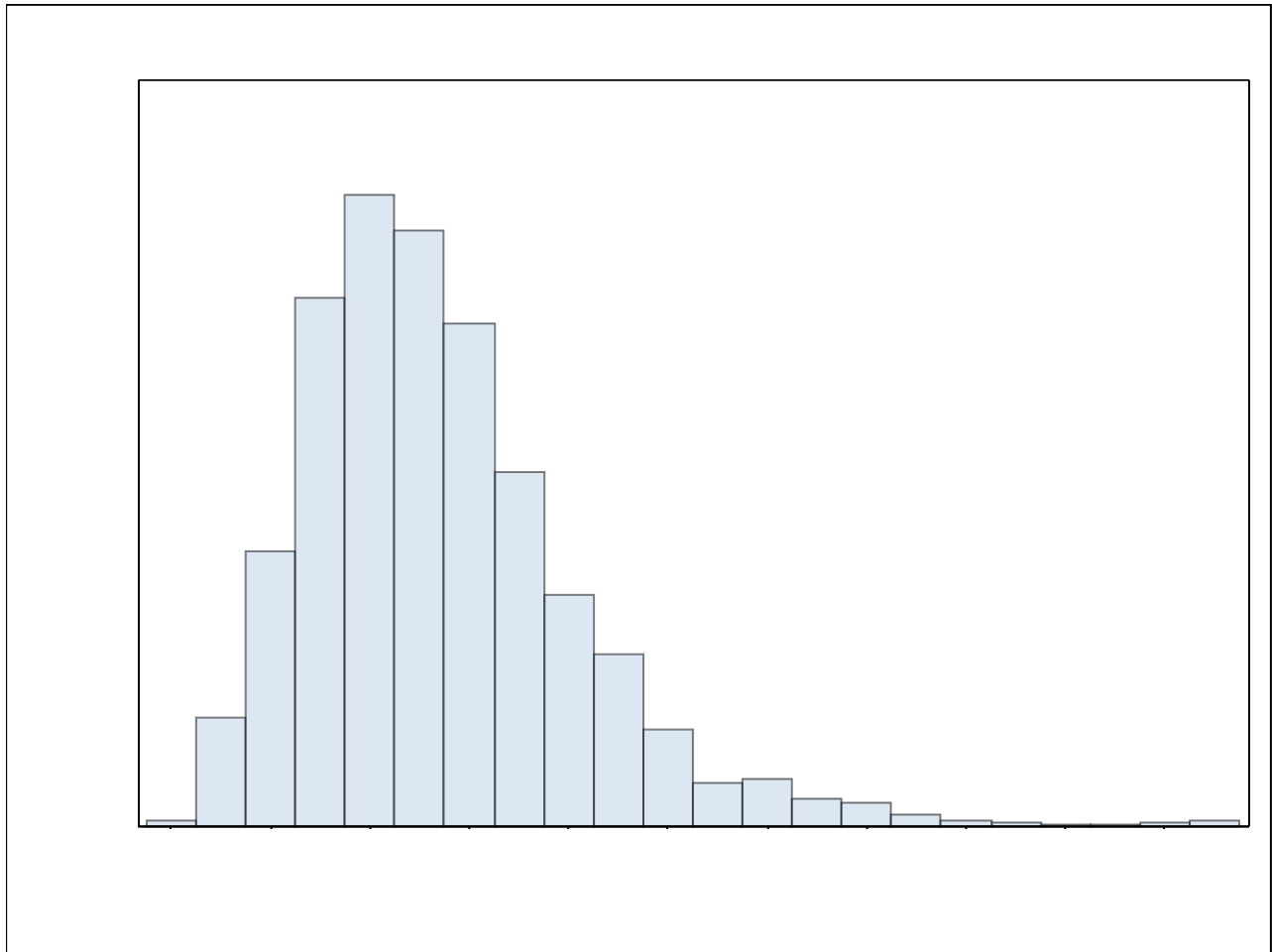
Univariate summary stats: continuous

The UNIVARIATE Procedure



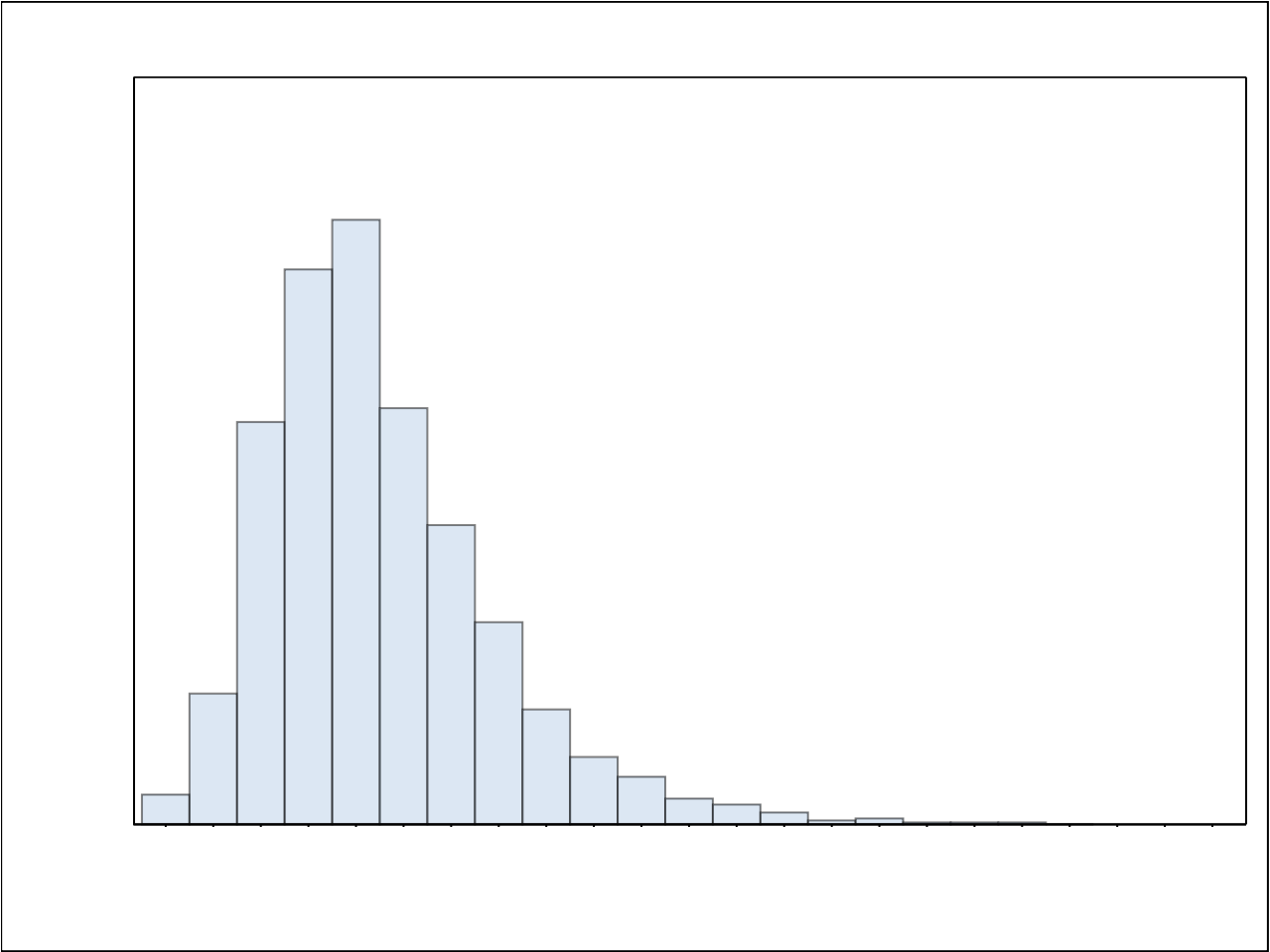
Univariate summary stats: continuous

The UNIVARIATE Procedure



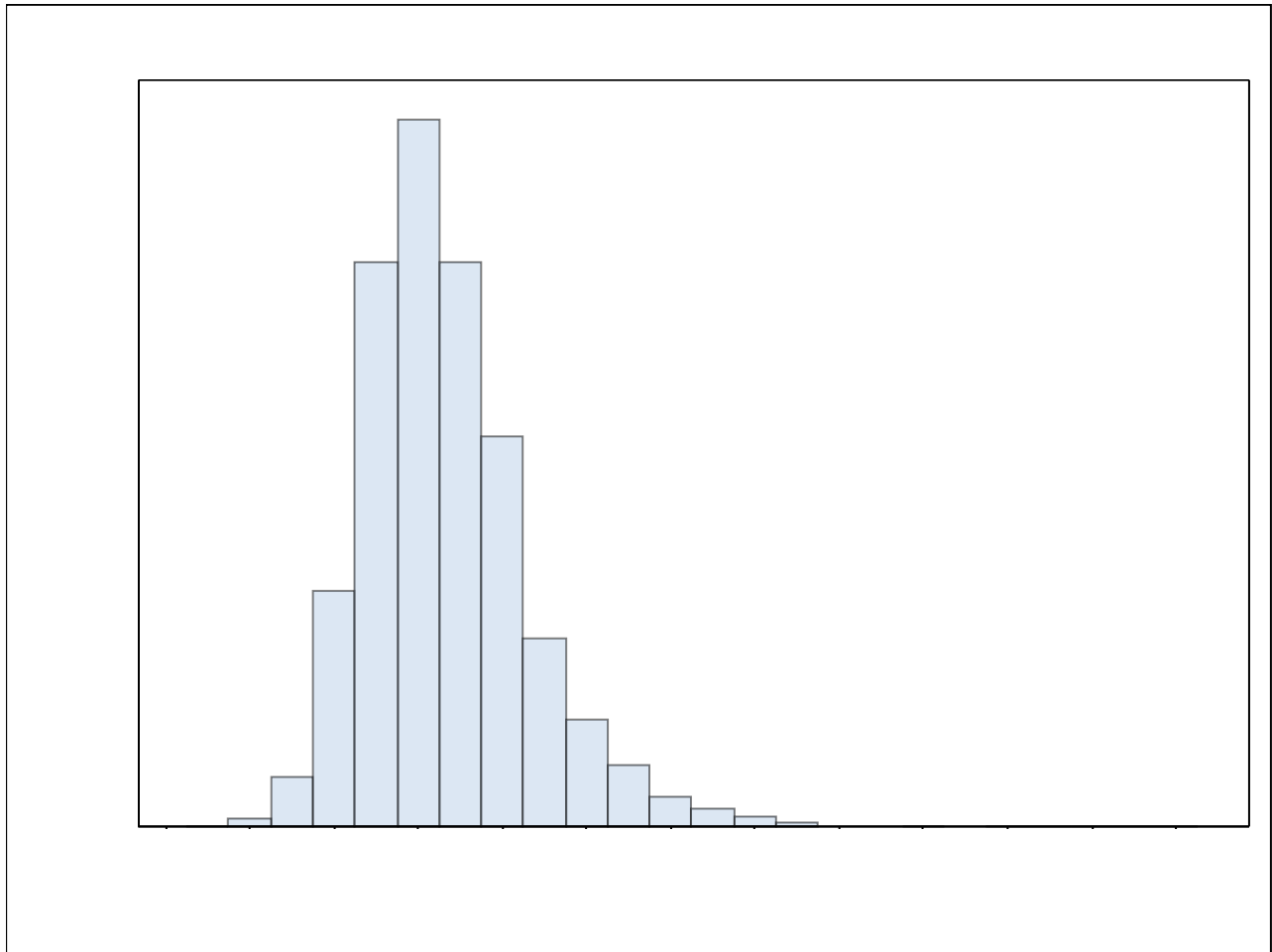
Univariate summary stats: continuous

The UNIVARIATE Procedure



Univariate summary stats: continuous

The UNIVARIATE Procedure



the summary of EF by EF categories

The MEANS Procedure

| Analysis Variable : EF Ejection Fraction | | | | | | |
|------------------------------------------|-------|------|------------|-----------|------------|------------|
| Ejection Fraction Categorization | N Obs | N | Mean | Std Dev | Minimum | Maximum |
| Normal | 3527 | 3527 | 65.7924582 | 4.1477286 | 60.0000000 | 85.0000000 |
| Preserved | 1477 | 1477 | 53.3920108 | 3.1725476 | 40.0000000 | 55.0000000 |
| Reduced | 49 | 49 | 27.9591837 | 8.4112008 | 10.0000000 | 35.0000000 |

the summary of LVMindex by LVH categories

The MEANS Procedure

| Analysis Variable : LVMindex Left Ventricular Mass Indexed by Height^2.7 | | | | | | |
|--------------------------------------------------------------------------|-------|------|------------|-----------|------------|-------------|
| Left Ventricular Hypertrophy | N Obs | N | Mean | Std Dev | Minimum | Maximum |
| Absent | 3144 | 3144 | 34.1557102 | 7.0100107 | 16.4131118 | 50.9524497 |
| Present | 257 | 257 | 59.8085982 | 9.0131635 | 51.0130684 | 106.8054345 |

the summary of LVMin dex by LVH categories

The FREQ Procedure

| Table of EF3cat by LVH | | | | |
|------------------------------------------|-----------------------------------|---------------------------------|------------------------------|----------------|
| EF3cat(Ejection Fraction Categorization) | LVH(Left Ventricular Hypertrophy) | | | |
| Frequency Percent Row Pct Col Pct | . | Absent | Present | Total |
| . | 238 4.49 94.07 12.49 | 15 0.28 5.93 0.48 | 0 0.00 0.00 0.00 | 253 4.77 |
| Normal | 1111 20.94 31.50 58.32 | 2253 42.46 63.88 71.66 | 163 3.07 4.62 63.42 | 3527 66.47 |
| Preserved | 538 10.14 36.43 28.24 | 865 16.30 58.56 27.51 | 74 1.39 5.01 28.79 | 1477 27.84 |
| Reduced | 18 0.34 36.73 0.94 | 11 0.21 22.45 0.35 | 20 0.38 40.82 7.78 | 49 0.92 |
| Total | 1905 35.90 | 3144 59.25 | 257 4.84 | 5306 100.00 |

the summary of LVMin dex by LVH categories

The FREQ Procedure

| Table of EF3cat by HTN | | | | |
|--------------------------------------------|-----------------------------|---------------------------------|---------------------------------|----------------|
| EF3cat(Ejection Fraction Categorization) | HTN(Hypertension Status) | | | |
| Frequency Percent Row Pct Col Pct | | No | Yes | Total |
| . | 2 0.04 0.79 100.00 | 117 2.21 46.25 5.07 | 134 2.53 52.96 4.47 | 253 4.77 |
| Normal | 0 0.00 0.00 0.00 | 1479 27.87 41.93 64.08 | 2048 38.60 58.07 68.36 | 3527 66.47 |
| Preserved | 0 0.00 0.00 0.00 | 704 13.27 47.66 30.50 | 773 14.57 52.34 25.80 | 1477 27.84 |
| Reduced | 0 0.00 0.00 0.00 | 8 0.15 16.33 0.35 | 41 0.77 83.67 1.37 | 49 0.92 |
| Total | 2 0.04 | 2308 43.50 | 2996 56.46 | 5306 100.00 |

The UNIVARIATE Procedure
Variable: RWT (Relative Wall
Thickness)

| Moments | | | |
|-----------------|------------|------------------|------------|
| N | 3406 | Sum Weights | 3406 |
| Mean | 0.34906662 | Sum Observations | 1188.92091 |
| Std Deviation | 0.05859158 | Variance | 0.00343297 |
| Skewness | 1.16990894 | Kurtosis | 3.9962409 |
| Uncorrected SS | 426.701878 | Corrected SS | 11.689273 |
| Coeff Variation | 16.7852135 | Std Error Mean | 0.00100395 |

| Basic Statistical Measures | | | |
|----------------------------|----------|---------------------|---------|
| Location | | Variability | |
| Mean | 0.349067 | Std Deviation | 0.05859 |
| Median | 0.340469 | Variance | 0.00343 |
| Mode | 0.333333 | Range | 0.75423 |
| | | Interquartile Range | 0.07155 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|----------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 347.6926 | Pr > t | <.0001 |
| Sign | M | 1703 | Pr >= M | <.0001 |
| Signed Rank | S | 2901061 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Level | Quantile |
| 100% Max | 0.900538 |
| 99% | 0.528345 |
| 95% | 0.454762 |
| 90% | 0.423077 |
| 75% Q3 | 0.380435 |
| 50% Median | 0.340469 |
| 25% Q1 | 0.308880 |
| 10% | 0.284895 |
| 5% | 0.271318 |

The UNIVARIATE Procedure
Variable: RWT (Relative Wall Thickness)

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Level | Quantile |
| 1% | 0.243902 |
| 0% Min | 0.146310 |

| Extreme Observations | | | |
|----------------------|------|----------|------|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.146310 | 4961 | 0.604651 | 2364 |
| 0.199229 | 4901 | 0.625000 | 2754 |
| 0.208464 | 995 | 0.651054 | 2940 |
| 0.209335 | 2859 | 0.715026 | 2964 |
| 0.210370 | 42 | 0.900538 | 3460 |

| Missing Values | | | |
|----------------|-------|------------|-------------|
| Missing Value | Count | Percent Of | |
| | | All Obs | Missing Obs |
| . | 1900 | 35.81 | 100.00 |

The UNIVARIATE Procedure

Variable: EF (Ejection Fraction)

| Moments | | | |
|-----------------|------------|------------------|------------|
| N | 5053 | Sum Weights | 5053 |
| Mean | 61.8009104 | Sum Observations | 312280 |
| Std Deviation | 7.65007822 | Variance | 58.5236967 |
| Skewness | -1.027955 | Kurtosis | 4.28669571 |
| Uncorrected SS | 19594850 | Corrected SS | 295661.716 |
| Coeff Variation | 12.378585 | Std Error Mean | 0.10761956 |

| Basic Statistical Measures | | | |
|----------------------------|----------|---------------------|----------|
| Location | | Variability | |
| Mean | 61.80091 | Std Deviation | 7.65008 |
| Median | 65.00000 | Variance | 58.52370 |
| Mode | 65.00000 | Range | 75.00000 |
| | | Interquartile Range | 10.00000 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|----------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 574.2535 | Pr > t | <.0001 |
| Sign | M | 2526.5 | Pr >= M | <.0001 |
| Signed Rank | S | 6384466 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Level | Quantile |
| 100% Max | 85 |
| 99% | 75 |
| 95% | 75 |
| 90% | 70 |
| 75% Q3 | 65 |
| 50% Median | 65 |
| 25% Q1 | 55 |
| 10% | 55 |
| 5% | 50 |

The UNIVARIATE Procedure

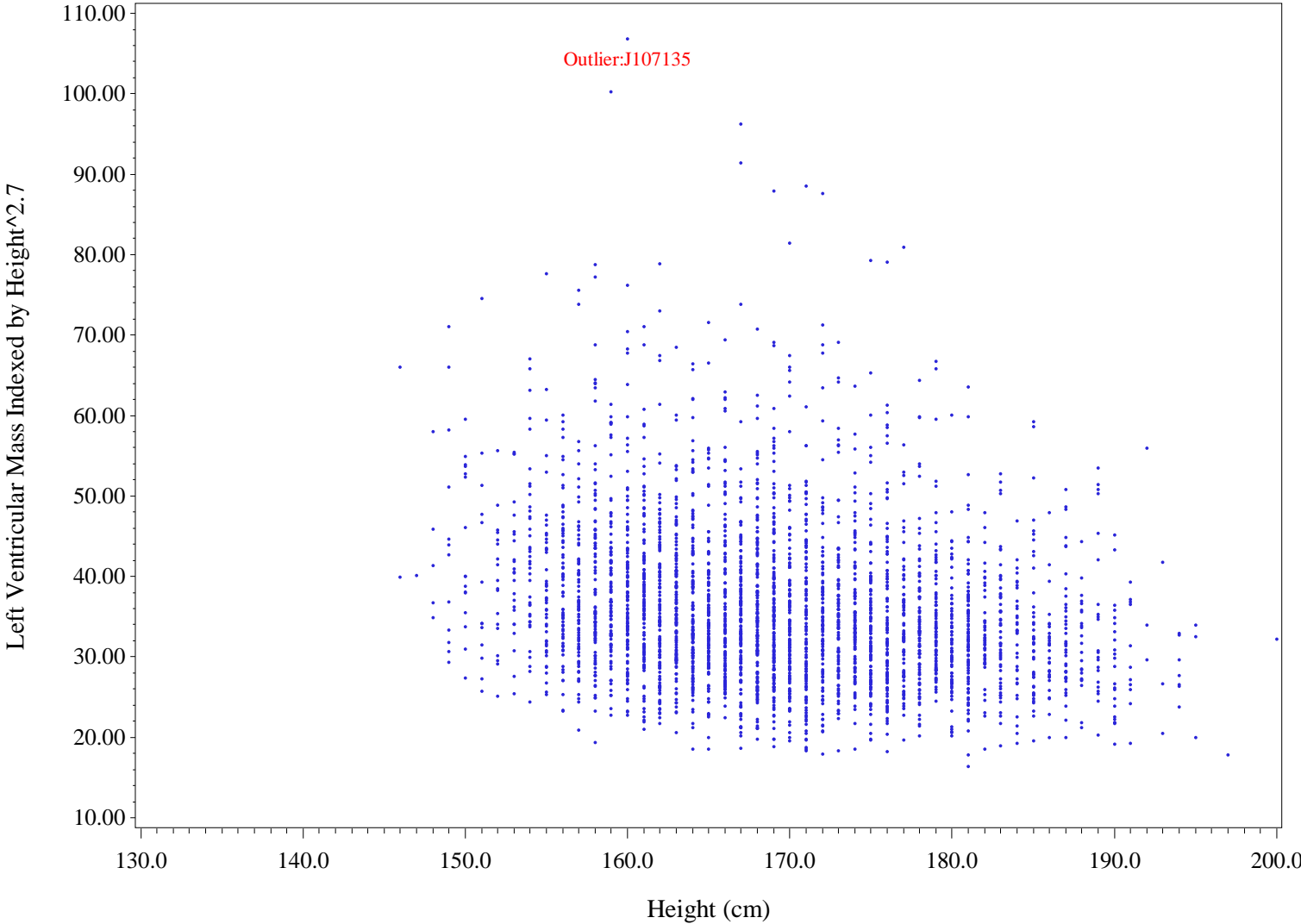
Variable: EF (Ejection Fraction)

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Level | Quantile |
| 1% | 40 |
| 0% Min | 10 |

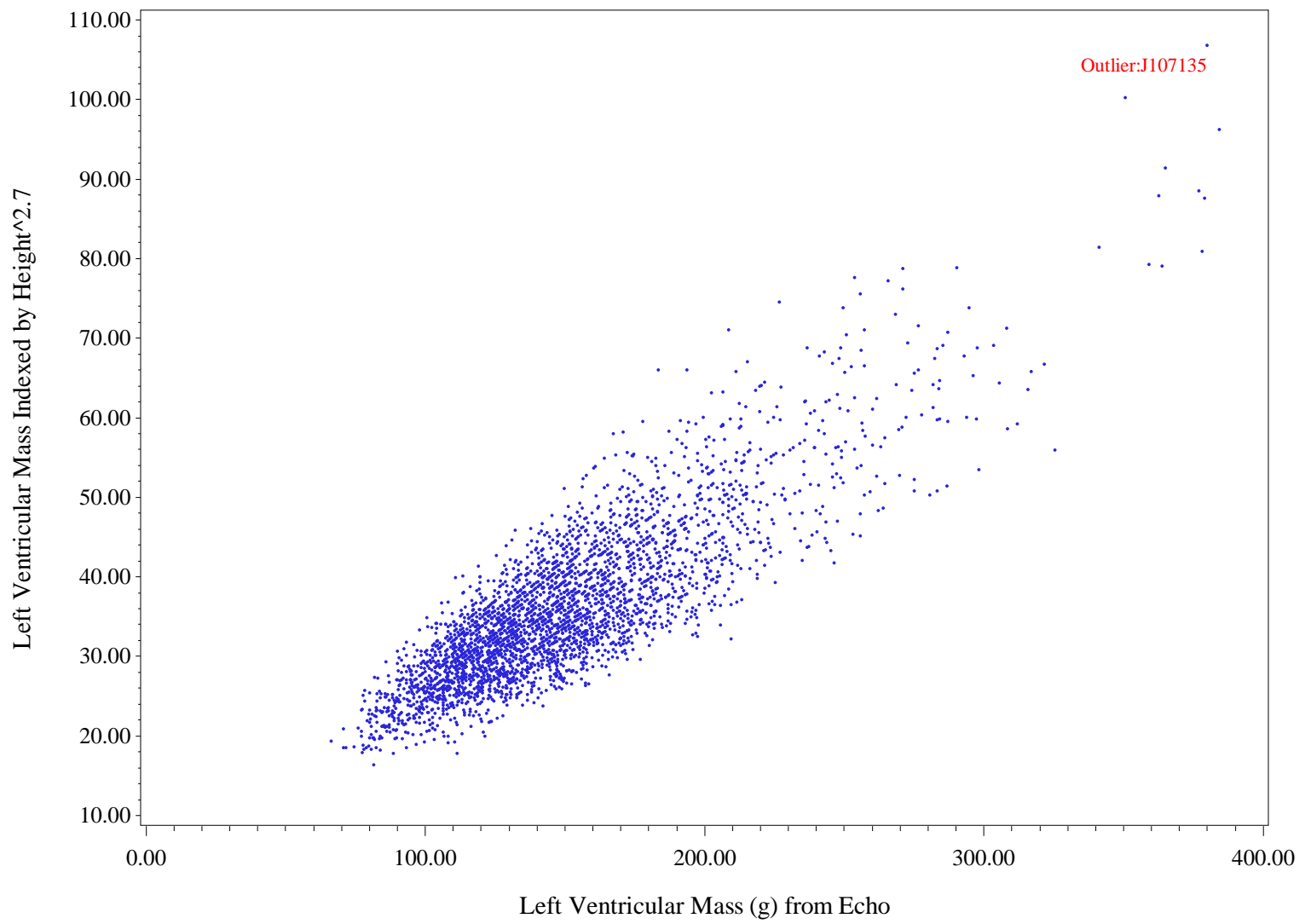
| Extreme Observations | | | |
|----------------------|------|---------|------|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 10 | 4900 | 85 | 3344 |
| 15 | 4961 | 85 | 3460 |
| 15 | 4901 | 85 | 3500 |
| 15 | 4555 | 85 | 3971 |
| 15 | 3882 | 85 | 3994 |

| Missing Values | | | |
|----------------|-------|------------|-------------|
| Missing Value | Count | Percent Of | |
| | | All Obs | Missing Obs |
| . | 253 | 4.77 | 100.00 |

LVMindex vs.height



LVMinindex vs.LVMecho

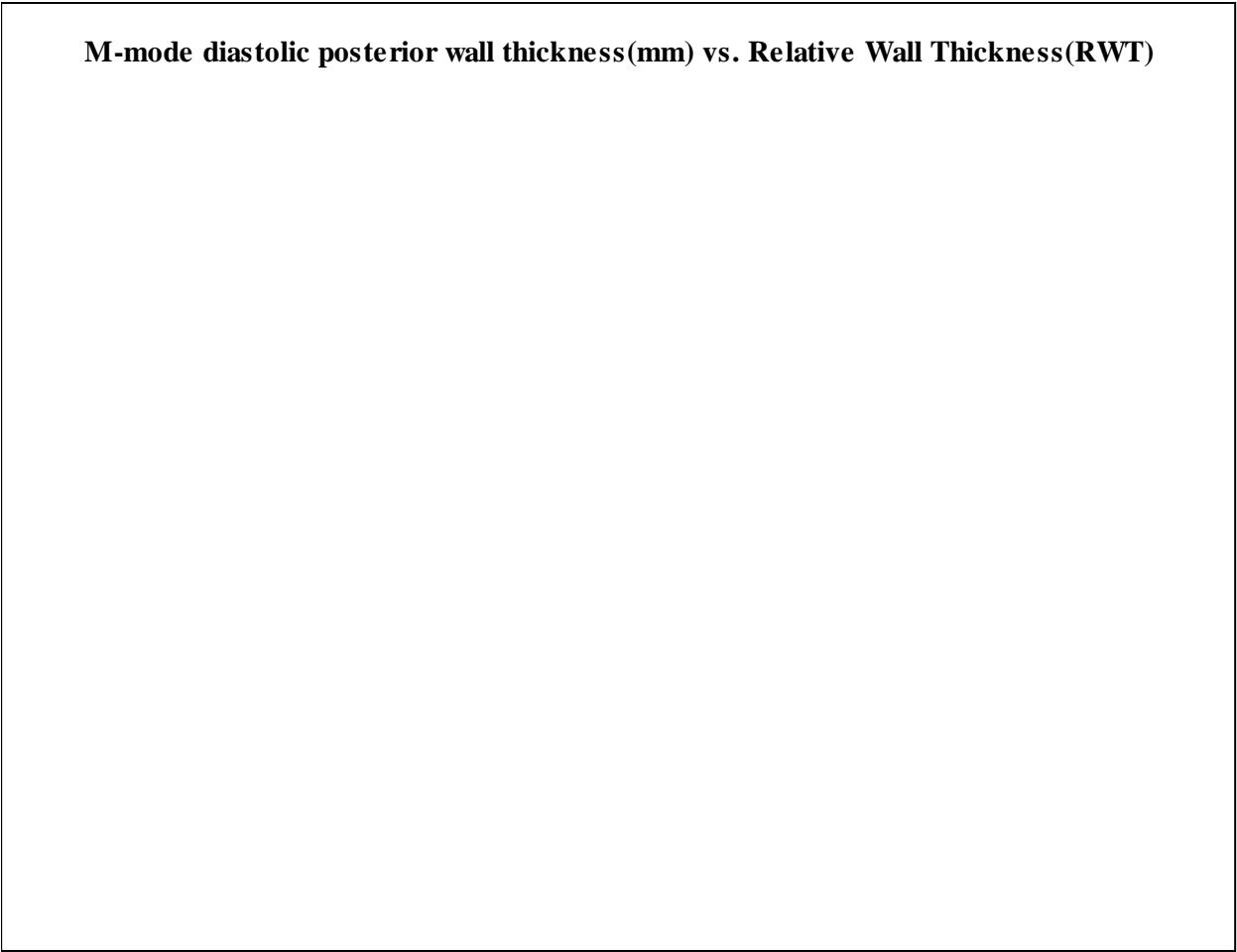


Diastolic LV Diameter (mm) vs. Systolic LV Diameter (mm) break down by FS status

M-mode diastolic IV septum thickness (mm) vs. M-mode diastolic posterior wall thickness (mm)

M-mode diastolic IV septum thickness(mm) vs. Relative Wall Thickness(RWT)

M-mode diastolic posterior wall thickness(mm) vs. Relative Wall Thickness(RWT)



Diastolic LV Diameter (mm) vs. Relative Wall Thickness(RWT)