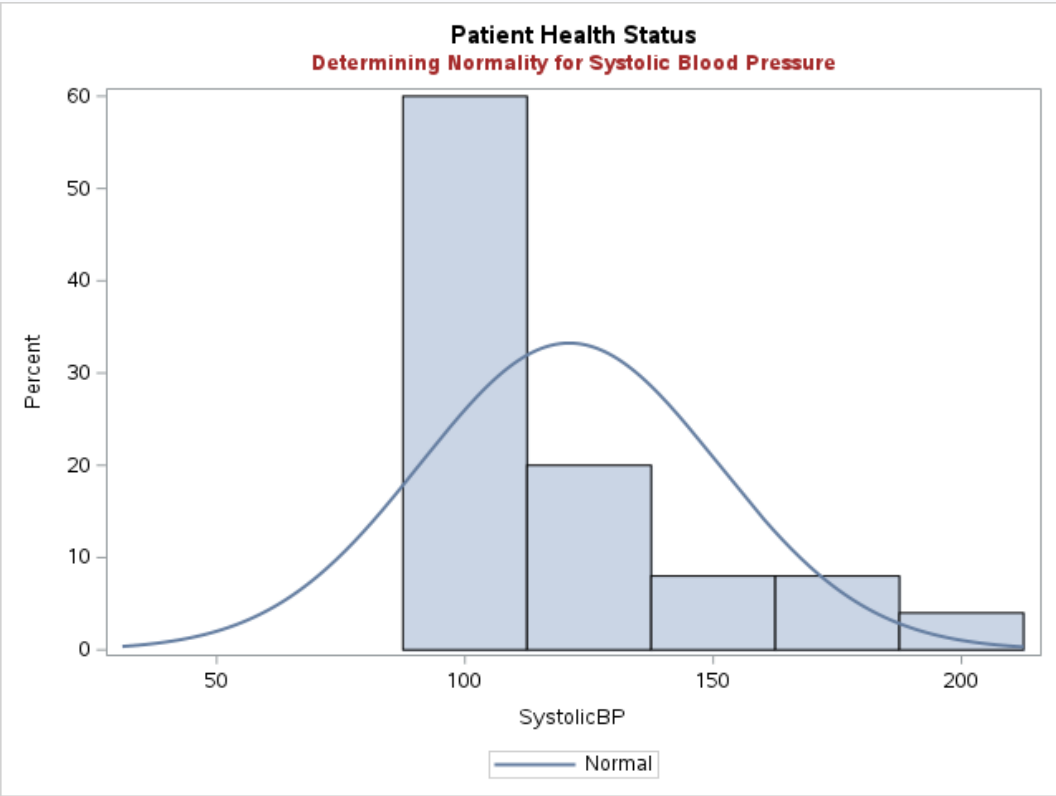
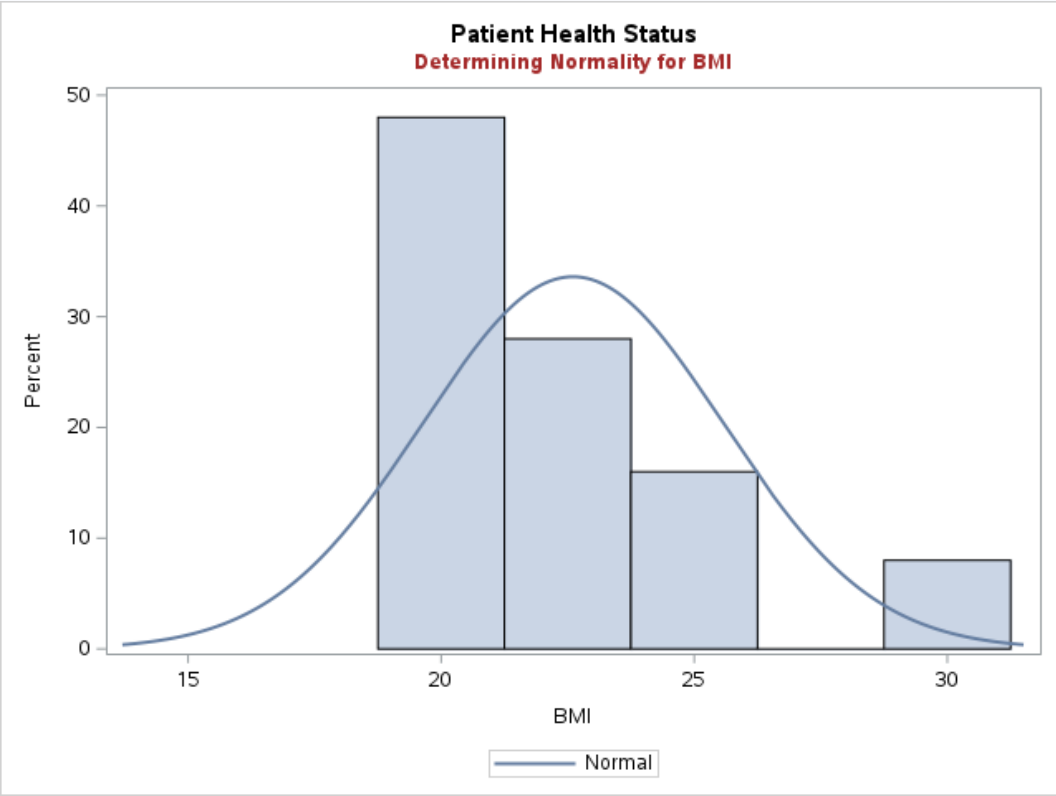


Patient Health Status

Obs	Name	Diabetes	SystolicBP	DiastolicBP	CVD	Smoking	MealsADay	Vegetarian	Height	Weight	BMI	WeightStatus	Gender	Age	MaritalStatus
1	Joanne	No	115	70	No	No	3	Yes	1.65	58	21.3	Normal weight	Female	45	Married
2	Mary	No	105	65	No	No	3	No	1.49	45	20.3	Normal weight	Female	60	Married
3	Lynda	No	100	65	No	No	3	Yes	1.65	58	21.3	Normal weight	Female	29	Single
4	Edward	No	100	65	No	No	3	No	1.76	65	20.98	Normal weight	Male	35	Married
5	Mia	No	105	65	No	No	3	No	1.49	45	20.3	Normal weight	Female	31	Married
6	Keith	No	129	84	No	Yes	3	Yes	1.8	73	22.5	Normal weight	Male	28	Married
7	Jake	Yes	111	75	No	Yes	4	Yes	1.76	80	25.8	Obese	Male	52	Married
8	Kelvin	No	100	65	No	No	3	No	1.76	65	20.98	Normal weight	Male	43	Single
9	Richard	No	102	66	No	No	3	Yes	1.82	77	23.25	Normal weight	Male	47	Married
10	Lily	Yes	210	120	Yes	Yes	4	Yes	1.64	75	30.43	Obese	Female	51	Married
11	Janet	No	115	70	No	Yes	3	No	1.57	52	21.1	Normal weight	Female	61	Married
12	Anna	No	105	65	No	No	3	No	1.49	45	20.3	Normal weight	Female	45	Married
13	Steven	Yes	179	109	Yes	Yes	3	Yes	1.82	84	25.4	Overweight	Male	39	Married
14	Oscar	Yes	180	110	Yes	Yes	6	Yes	1.6	78	30.46	Obese	Male	44	Married
15	Billie	No	100	65	No	No	3	No	1.76	65	20.98	Normal weight	Female	35	Single
16	Adele	Yes	159	109	Yes	Yes	4	Yes	1.57	62	25.15	Overweight	Female	53	Single
17	Lee	Yes	145	100	Yes	Yes	4	Yes	1.69	73	25.56	Overweight	Male	48	Married
18	Sam	No	100	65	No	No	3	No	1.76	65	20.98	Normal weight	Male	37	Married
19	Queine	No	100	65	No	No	3	No	1.65	58	21.3	Normal weight	Female	30	Single
20	Jen	No	108	62	No	No	3	No	1.55	59	20.4	Normal weight	Female	25	Single
21	Samuel	No	112	68	No	No	3	Yes	1.75	75	22.6	Normal weight	Male	22	Married
22	Dora	No	105	65	No	No	3	No	1.49	45	20.3	Normal weight	Female	36	Married
23	Terance	No	105	65	No	No	3	No	1.49	45	20.3	Normal weight	Male	52	Married
24	Chloe	No	120	80	No	Yes	2	Yes	1.7	66	22.84	Normal weight	Female	45	Married
25	Kendall	No	115	70	No	No	3	No	1.72	69	20.3	Normal weight	Male	24	Single



Patient Health Status
Shapiro-Wilk Test

The UNIVARIATE Procedure
Variable: BMI (BMI)

Moments			
N	25	Sum Weights	25
Mean	22.6044	Sum Observations	565.11
Std Deviation	2.96732073	Variance	8.80499233
Skewness	1.64632598	Kurtosis	2.16112791
Uncorrected SS	12985.2923	Corrected SS	211.319816

Moments			
Coeff Variation	13.127182	Std Error Mean	0.59346415

Basic Statistical Measures			
Location		Variability	
Mean	22.60440	Std Deviation	2.96732
Median	21.30000	Variance	8.80499
Mode	20.30000	Range	10.16000
		Interquartile Range	2.85000

Tests for Location: Mu0=0				
Test		Statistic	p Value	
Student's t	t	38.08891	Pr > t	<.0001
Sign	M	12.5	Pr >= M	<.0001
Signed Rank	S	162.5	Pr >= S	<.0001

Tests for Normality				
Test		Statistic	p Value	
Shapiro-Wilk	W	0.75748	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.269882	Pr > D	<0.0100
Cramer-von Mises	W-Sq	0.378118	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	2.189062	Pr > A-Sq	<0.0050

Quantiles (Definition 5)	
Level	Quantile
100% Max	30.46
99%	30.46
95%	30.43
90%	25.80
75% Q3	23.25
50% Median	21.30
25% Q1	20.40
10%	20.30
5%	20.30
1%	20.30
0% Min	20.30

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20.3	25	25.40	13
20.3	23	25.56	17
20.3	22	25.80	7
20.3	12	30.43	10
20.3	5	30.46	14

Patient Health Status

Shapiro-Wilk Test

The UNIVARIATE Procedure

Variable: SystolicBP (SystolicBP)

Moments			
N	25	Sum Weights	25
Mean	121	Sum Observations	3025
Std Deviation	29.9972221	Variance	899.833333
Skewness	1.82415806	Kurtosis	2.55225062
Uncorrected SS	387621	Corrected SS	21596
Coeff Variation	24.7910926	Std Error Mean	5.99944442

Basic Statistical Measures			
Location		Variability	
Mean	121.0000	Std Deviation	29.99722
Median	108.0000	Variance	899.83333
Mode	100.0000	Range	110.00000

Basic Statistical Measures			
Location		Variability	
		Interquartile Range	18.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.16853	Pr > t	<.0001
Sign	M	12.5	Pr >= M	<.0001
Signed Rank	S	162.5	Pr >= S	<.0001

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.713657	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.299267	Pr > D	<0.0100
Cramer-von Mises	W-Sq	0.546547	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	2.887321	Pr > A-Sq	<0.0050

Quantiles (Definition 5)	
Level	Quantile
100% Max	210
99%	210
95%	180
90%	179
75% Q3	120
50% Median	108
25% Q1	102
10%	100
5%	100
1%	100
0% Min	100

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
100	19	145	17
100	18	159	16
100	15	179	13
100	8	180	14
100	4	210	10

Patient Health Status

Difference between 2 Independent Population

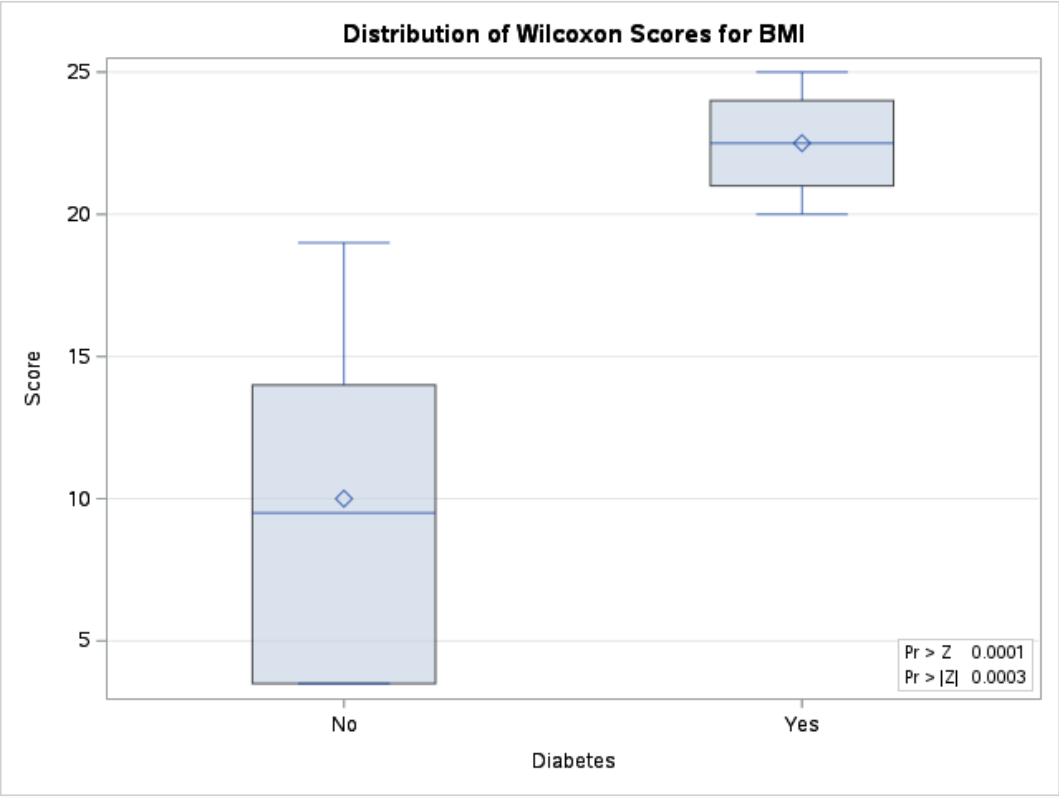
Wilcoxon Rank Sum Test

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable BMI Classified by Variable Diabetes					
Diabetes	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
No	19	190.0	247.0	15.567434	10.00
Yes	6	135.0	78.0	15.567434	22.50
Average scores were used for ties.					

Wilcoxon Two-Sample Test							
Statistic (S)	Z	Pr > Z	Pr > Z	t Approximation		Exact	
				Pr > Z	Pr > Z	Pr >= S	Pr >= S-Mean
135.0000	3.6294	0.0001	0.0003	0.0007	0.0013	<.0001	<.0001
Z includes a continuity correction of 0.5.							

Kruskal-Wallis Test		
Chi-Square	DF	Pr > ChiSq
13.4065	1	0.0003



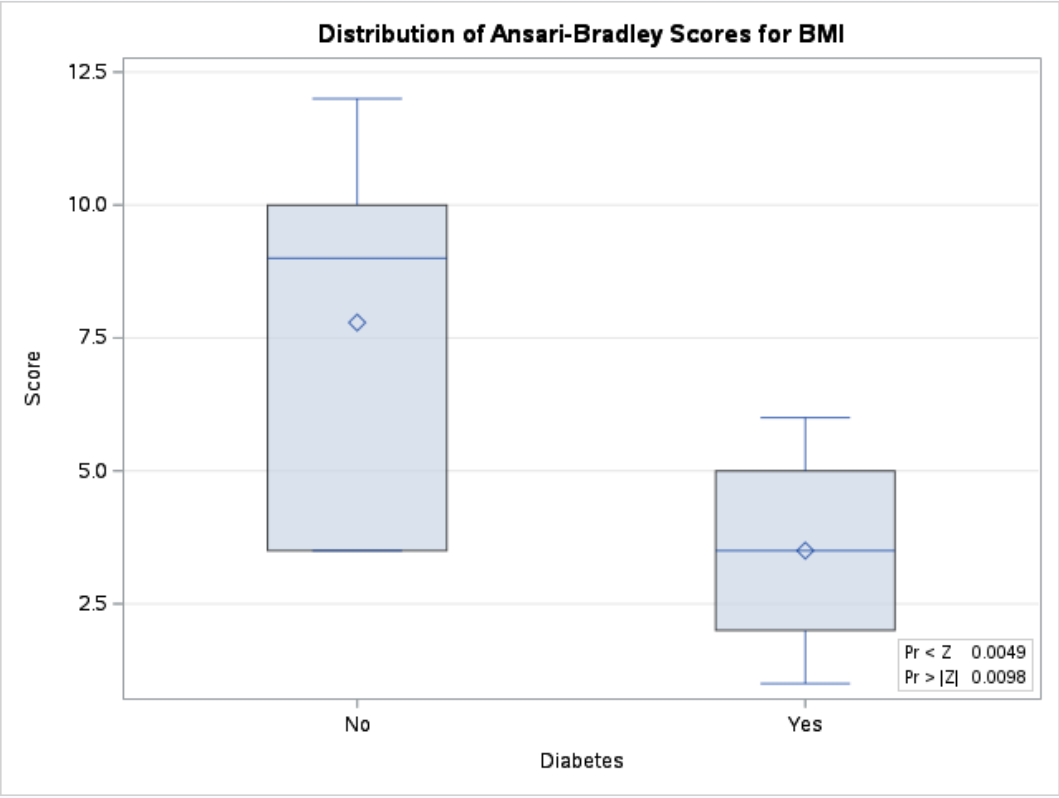
Patient Health Status
Difference between 2 Independent Population
Ansari-Bradley Test

The NPAR1WAY Procedure

Ansari-Bradley Scores for Variable BMI Classified by Variable Diabetes					
Diabetes	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
No	19	148.0	128.440	7.575711	7.789474
Yes	6	21.0	40.560	7.575711	3.500000
Average scores were used for ties.					

Ansari-Bradley Two-Sample Test			
Statistic	Z	Pr < Z	Pr > Z
21.0000	-2.5819	0.0049	0.0098

Ansari-Bradley One-Way Analysis		
Chi-Square	DF	Pr > ChiSq
6.6664	1	0.0098



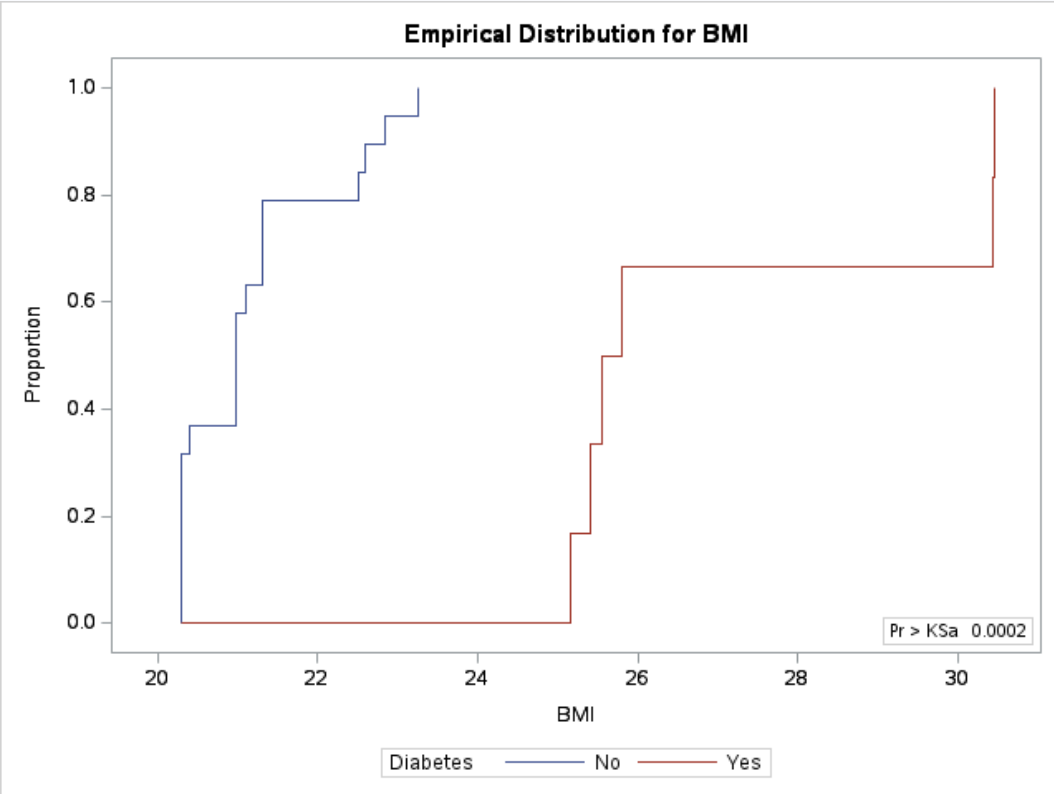
Patient Health Status
Difference between 2 Independent Population
Kolmogorov-Smirnov Test

The NPAR1WAY Procedure

Kolmogorov-Smirnov Test for Variable BMI Classified by Variable Diabetes			
Diabetes	N	EDF at Maximum	Deviation from Mean at Maximum
No	19	1.000	1.046136
Yes	6	0.000	-1.861612
Total	25	0.760	
Maximum Deviation Occurred at Observation 9			
Value of BMI at Maximum = 23.250			

KS	0.4271	KSa	2.1354
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Kolmogorov-Smirnov Two-Sample Test	
D = max F1 - F2	1.0000
Asymptotic Pr > D	0.0002
Exact Pr >= D	<.0001
D+ = max (F1 - F2)	1.0000
Asymptotic Pr > D+	0.0001
Exact Pr >= D+	<.0001
D- = max (F2 - F1)	0.0000
Asymptotic Pr > D-	1.0000
Exact Pr >= D-	1.0000



Cramer-von Mises Test for Variable BMI Classified by Variable Diabetes		
Diabetes	N	Summed Deviation from Mean
No	19	0.406174
Yes	6	1.286219

Cramer-von Mises Statistics (Asymptotic)			
CM	0.067696	CMa	1.692393

Kuiper Test for Variable BMI Classified by Variable Diabetes		
Diabetes	N	Deviation from Mean
No	19	1.0
Yes	6	0.0

Kuiper Two-Sample Test (Asymptotic)					
K	1.000000	Ka	2.135416	Pr > Ka	0.0038

Patient Health Status

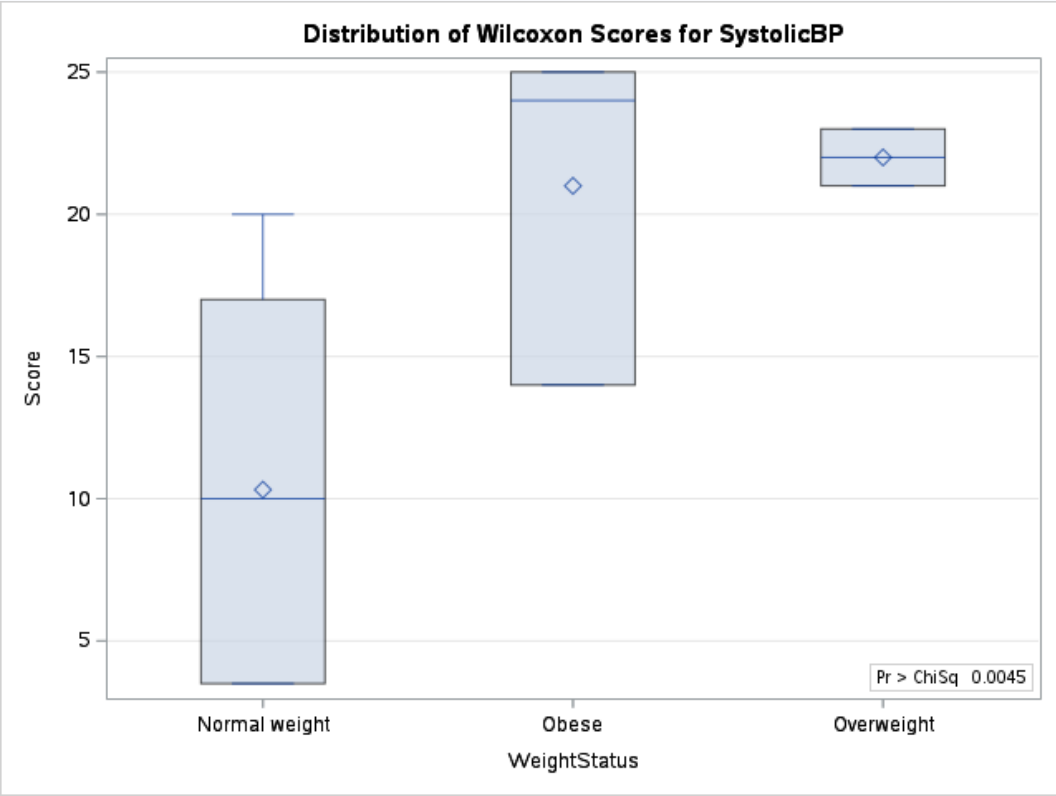
Difference between 3 or More Independent Population

Kruskal-Wallis Test

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable SystolicBP Classified by Variable WeightStatus					
WeightStatus	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
Normal weight	19	196.0	247.0	15.536892	10.315789
Obese	3	63.0	39.0	11.821802	21.000000
Overweight	3	66.0	39.0	11.821802	22.000000
Average scores were used for ties.					

Kruskal-Wallis Test			
Chi-Square	DF	Pr > ChiSq	Exact Pr >= ChiSq
10.8032	2	0.0045	0.0003



Patient Health Status
Testing Correlations
Spearman's Correlation Test

The CORR Procedure

5 Variables: Age MealsADay SystolicBP DiastolicBP BMI

Simple Statistics							
Variable	N	Mean	Std Dev	Median	Minimum	Maximum	Label
Age	25	40.68000	11.08197	43.00000	22.00000	61.00000	Age
MealsADay	25	3.24000	0.72342	3.00000	2.00000	6.00000	MealsADay
SystolicBP	25	121.00000	29.99722	108.00000	100.00000	210.00000	SystolicBP
DiastolicBP	25	76.32000	17.93906	66.00000	62.00000	120.00000	DiastolicBP
BMI	25	22.60440	2.96732	21.30000	20.30000	30.46000	BMI

Spearman Correlation Coefficients, N = 25 Prob > r under H0: Rho=0					
	Age	MealsADay	SystolicBP	DiastolicBP	BMI
Age	1.00000	0.35707 0.0797	0.27655 0.1808	0.33923 0.0971	0.24160 0.2446
MealsADay	0.35707 0.0797	1.00000	0.45741 0.0215	0.52890 0.0066	0.56518 0.0032
SystolicBP	0.27655 0.1808	0.45741 0.0215	1.00000	0.87072 <.0001	0.57384 0.0027
DiastolicBP	0.33923 0.0971	0.52890 0.0066	0.87072 <.0001	1.00000	0.79954 <.0001
BMI	0.24160 0.2446	0.56518 0.0032	0.57384 0.0027	0.79954 <.0001	1.00000

Patient Health Status
Testing Goodness of Fit
Chi-Square Test

The FREQ Procedure

Frequency Percent Row Pct Col Pct	Table of Gender by Vegetarian			
	Gender(Gender)	Vegetarian(Vegetarian)		
		No	Yes	Total
	Female	8 32.00 61.54	5 20.00 38.46	13 52.00

Table of Gender by Vegetarian			
Gender(Gender)	Vegetarian(Vegetarian)		
	No	Yes	Total
	61.54	41.67	
Male	5	7	12
	20.00	28.00	48.00
	41.67	58.33	
	38.46	58.33	
Total	13	12	25
	52.00	48.00	100.00

Statistics for Table of Gender by Vegetarian

Statistic	DF	Value	Prob
Chi-Square	1	0.9872	0.3204
Likelihood Ratio Chi-Square	1	0.9935	0.3189
Continuity Adj. Chi-Square	1	0.3516	0.5532
Mantel-Haenszel Chi-Square	1	0.9477	0.3303
Phi Coefficient		0.1987	
Contingency Coefficient		0.1949	
Cramer's V		0.1987	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	8
Left-sided Pr <= F	0.9188
Right-sided Pr >= F	0.2772
Table Probability (P)	0.1960
Two-sided Pr <= P	0.4338

Sample Size = 25