

**LINEAR REGRESSION FOR WEIGHT\_VS\_AGE OF PUMPKINS**

**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: WEIGHT**

<b>Number of Observations Read</b>	120
<b>Number of Observations Used</b>	120

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	4814.20838	4814.20838	531.95	<.0001
<b>Error</b>	118	1067.90487	9.05004		
<b>Corrected Total</b>	119	5882.11325			

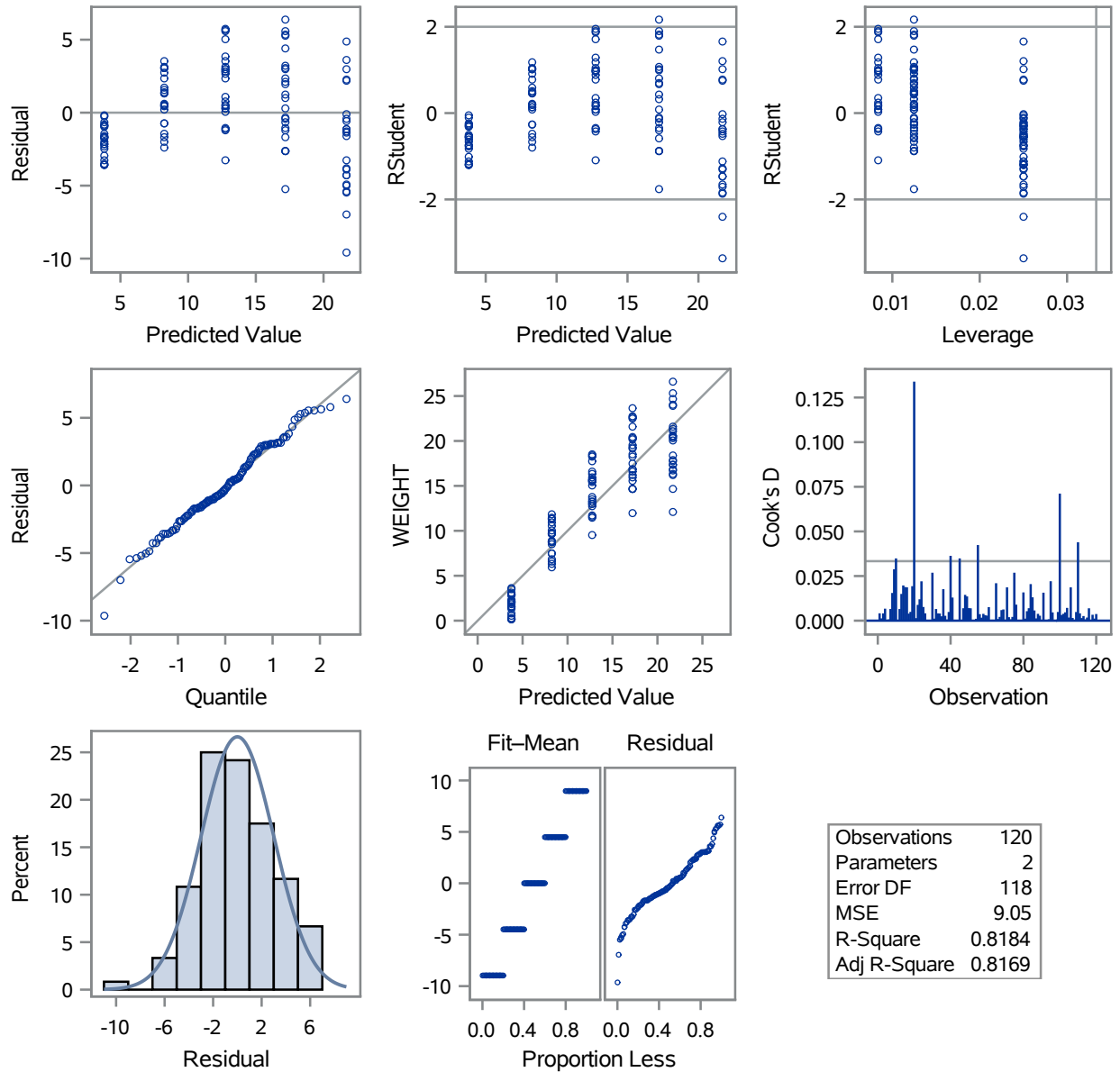
<b>Root MSE</b>	3.00833	<b>R-Square</b>	0.8184
<b>Dependent Mean</b>	12.74250	<b>Adj R-Sq</b>	0.8169
<b>Coeff Var</b>	23.60862		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
<b>Intercept</b>	1	-5.17250	0.82386	-6.28	<.0001
<b>AGE</b>	1	2.23938	0.09709	23.06	<.0001

# LINEAR REGRESSION FOR WEIGHT\_VS\_AGE OF PUMPKINS

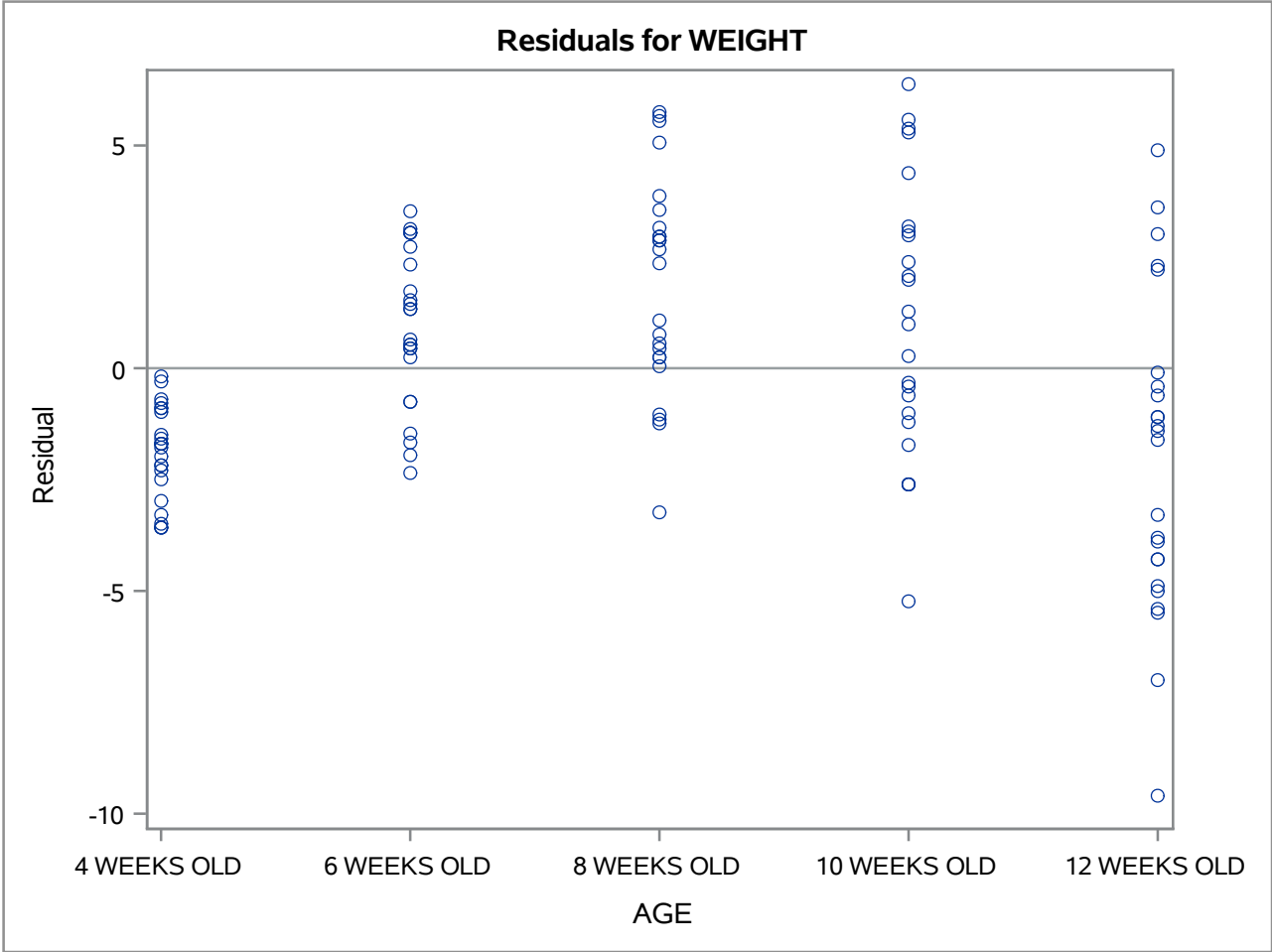
The REG Procedure  
Model: MODEL1  
Dependent Variable: WEIGHT

## Fit Diagnostics for WEIGHT



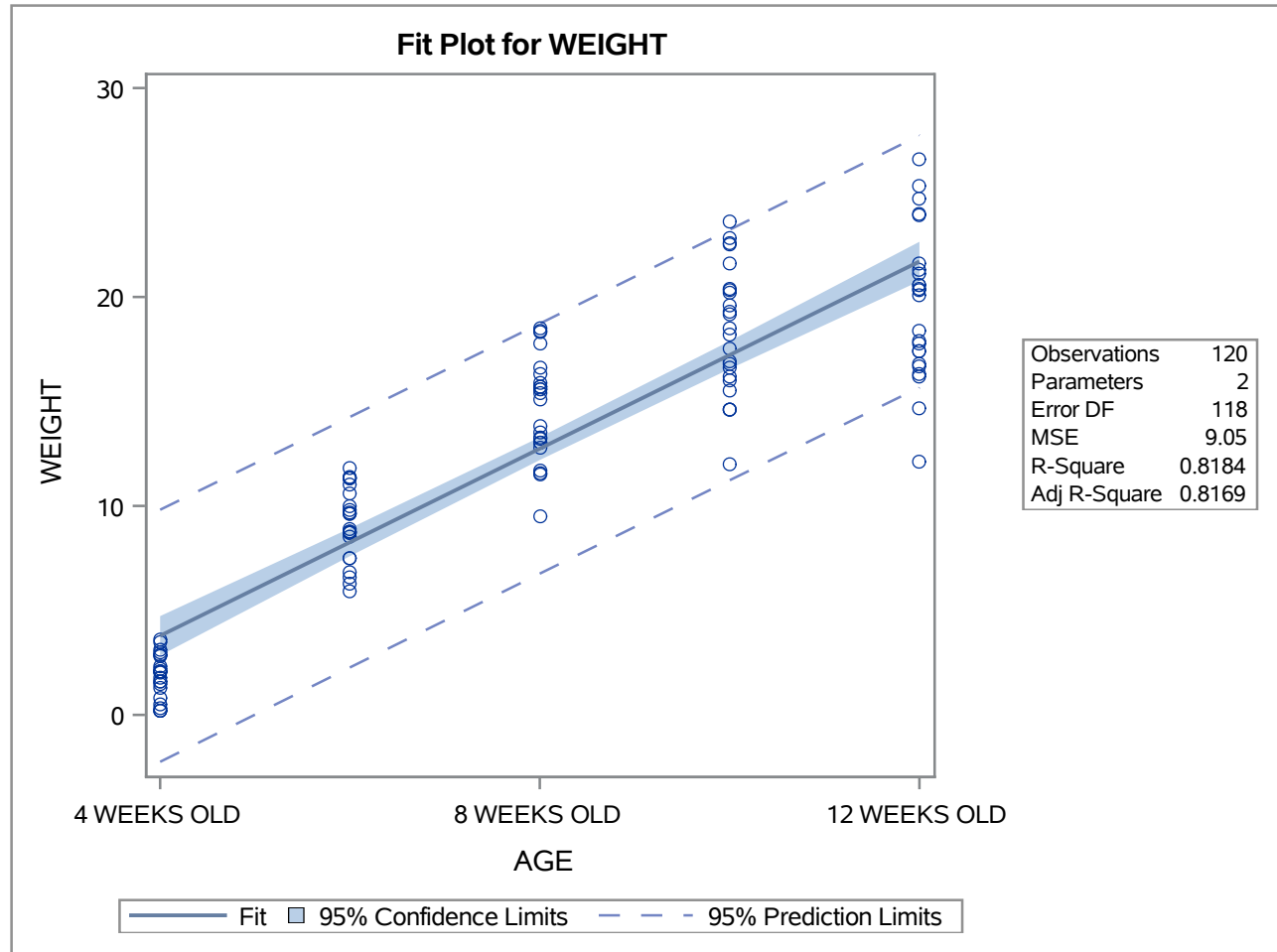
LINEAR REGRESSION FOR WEIGHT\_VS\_AGE OF PUMPKINS

The REG Procedure  
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Dependent Variable: WEIGHT



**LINEAR REGRESSION FOR WEIGHT\_VS\_AGE OF PUMPKINS**

The REG Procedure  
Model: MODEL1  
Dependent Variable: WEIGHT



**POLYNOMIAL MODEL FOR WEIGHT VS AGE OF PUMPKINS**

**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: WEIGHT**

<b>Number of Observations Read</b>	120
<b>Number of Observations Used</b>	120

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	3	5139.87857	1713.29286	267.76	<.0001
<b>Error</b>	116	742.23468	6.39857		
<b>Corrected Total</b>	119	5882.11325			

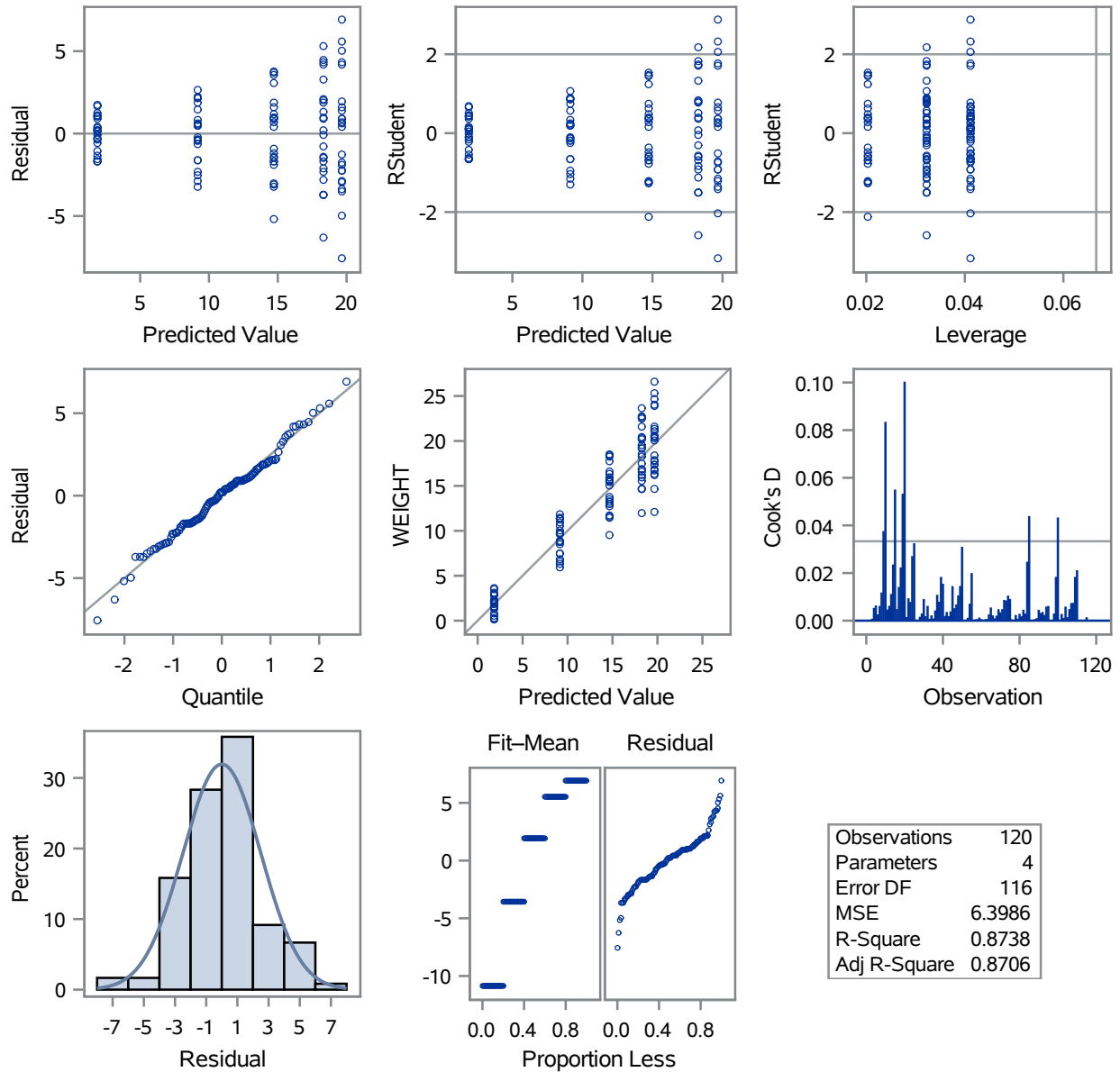
<b>Root MSE</b>	2.52954	<b>R-Square</b>	0.8738
<b>Dependent Mean</b>	12.74250	<b>Adj R-Sq</b>	0.8706
<b>Coeff Var</b>	19.85121		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
<b>Intercept</b>	1	-16.87833	7.15835	-2.36	0.0201
<b>AGE</b>	1	5.26022	3.08519	1.70	0.0909
<b>AGESQ</b>	1	-0.12299	0.40966	-0.30	0.7645
<b>AGECU</b>	1	-0.00512	0.01701	-0.30	0.7639

# POLYNOMIAL MODEL FOR WEIGHT VS AGE OF PUMPKINS

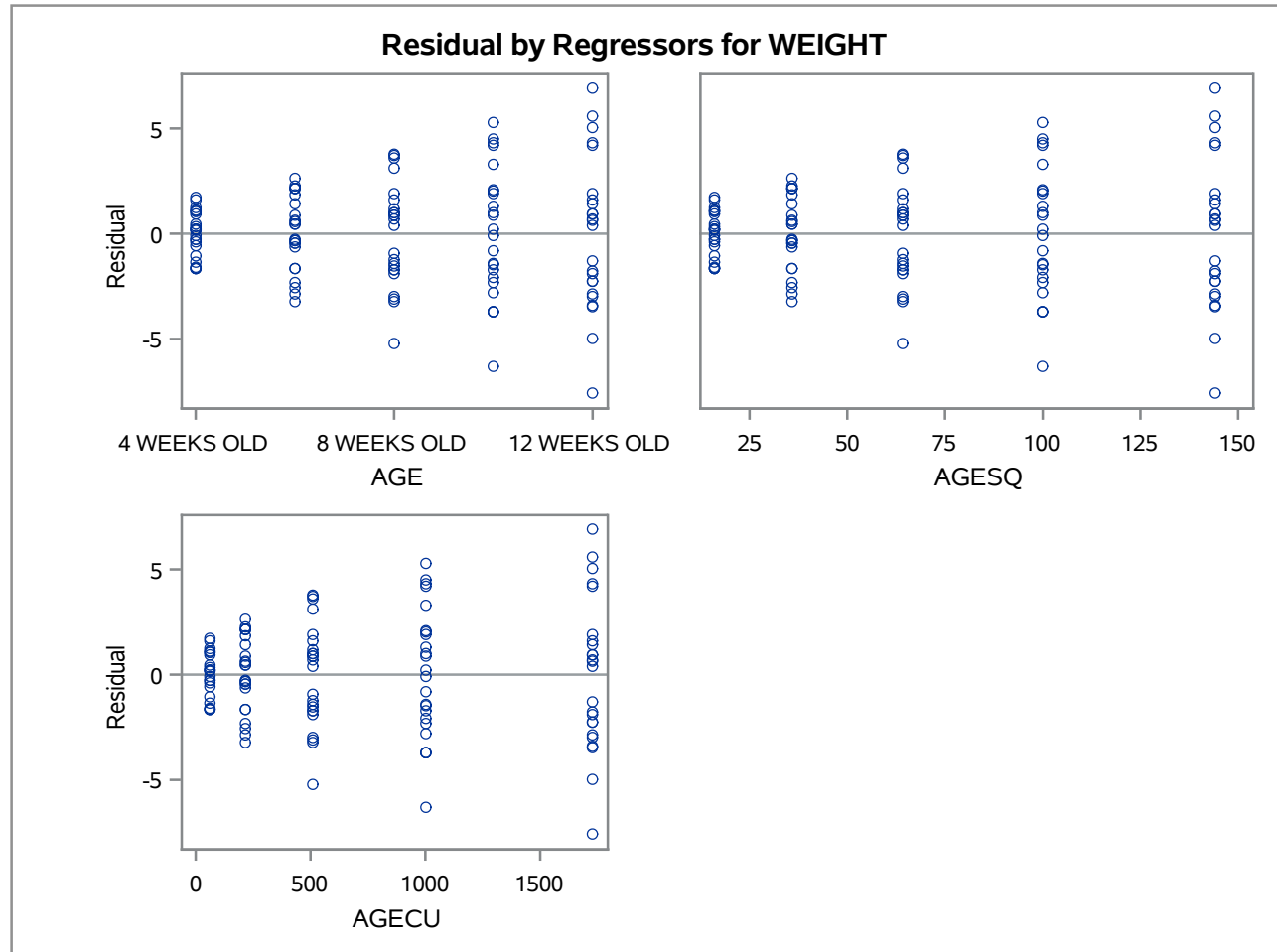
The REG Procedure  
Model: MODEL1  
Dependent Variable: WEIGHT

## Fit Diagnostics for WEIGHT



**POLYNOMIAL MODEL FOR WEIGHT VS AGE OF PUMPKINS**

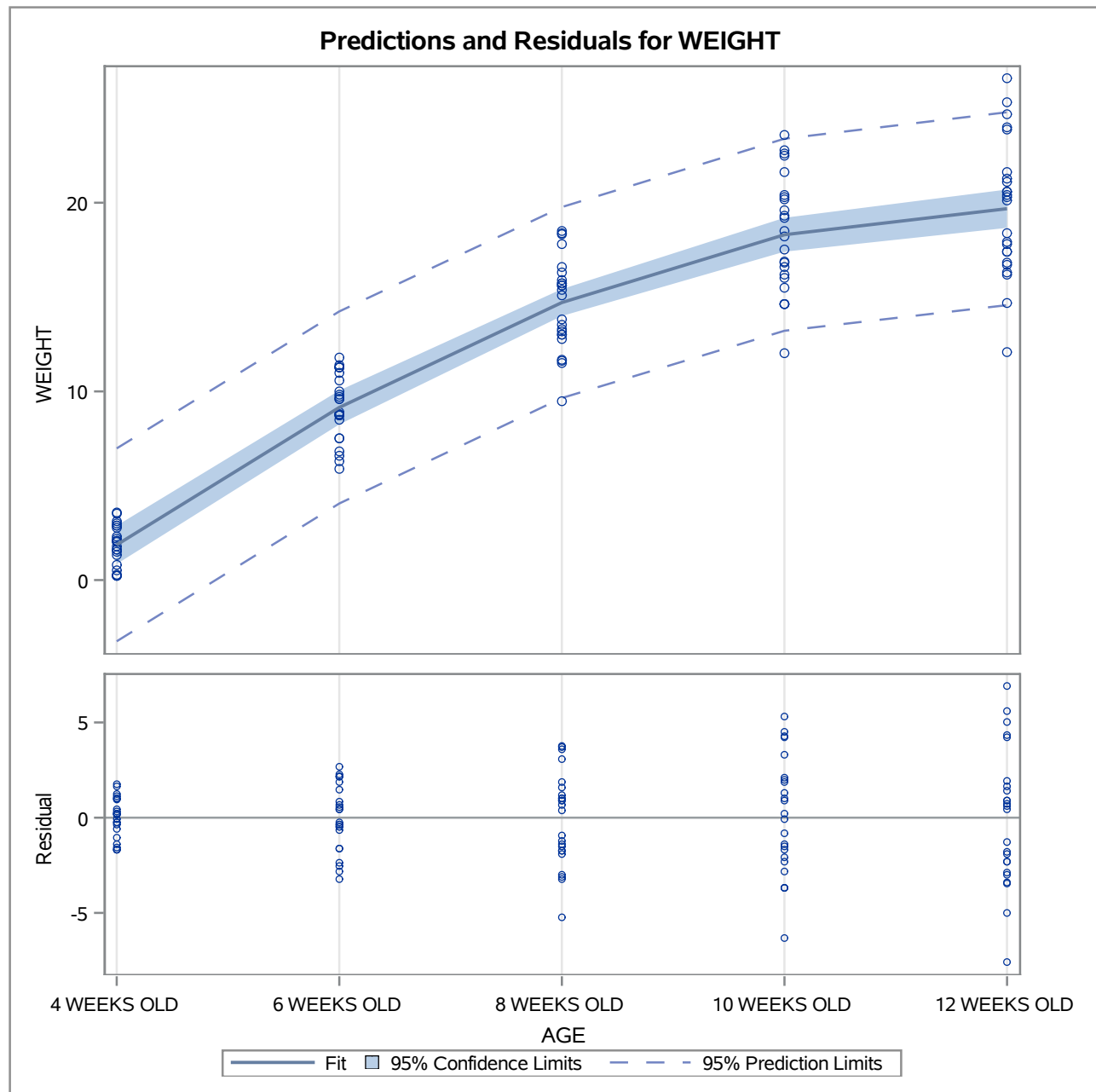
The REG Procedure  
Model: MODEL1  
Dependent Variable: WEIGHT





**POLYNOMIAL MODEL FOR WEIGHT VS AGE OF PUMPKINS**

The REG Procedure  
Model: MODEL1  
Dependent Variable: WEIGHT



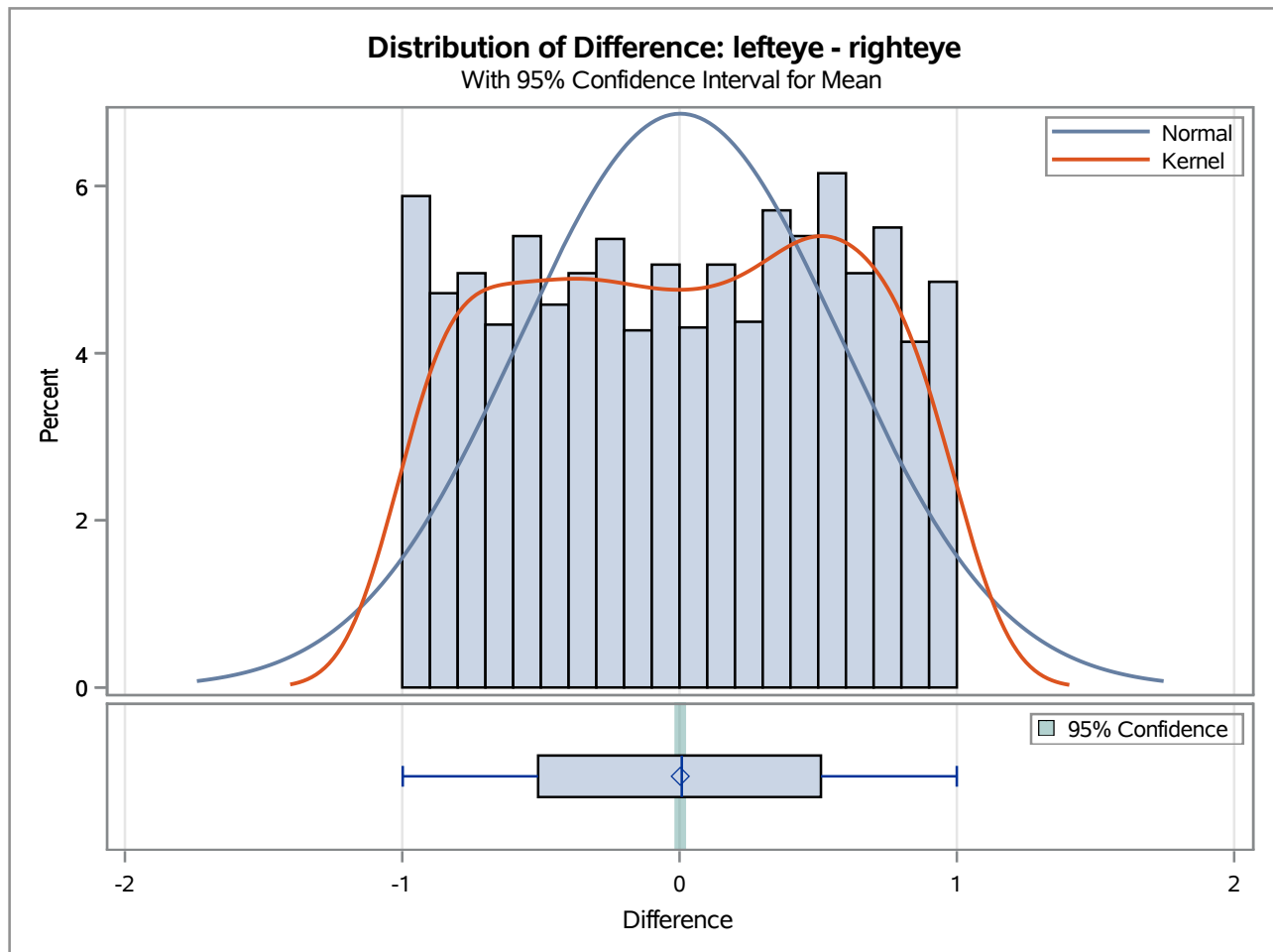
**DIFFERENCE BETWEEN LEFT & RIGHT EYE OF PATIENTS WITH MYOPIA****The TTEST Procedure****Difference: lefteye - righteye**

gender=female

N	Mean	Std Dev	Std Err	Minimum	Maximum
2925	0.00256	0.5810	0.0107	-0.9982	0.9998

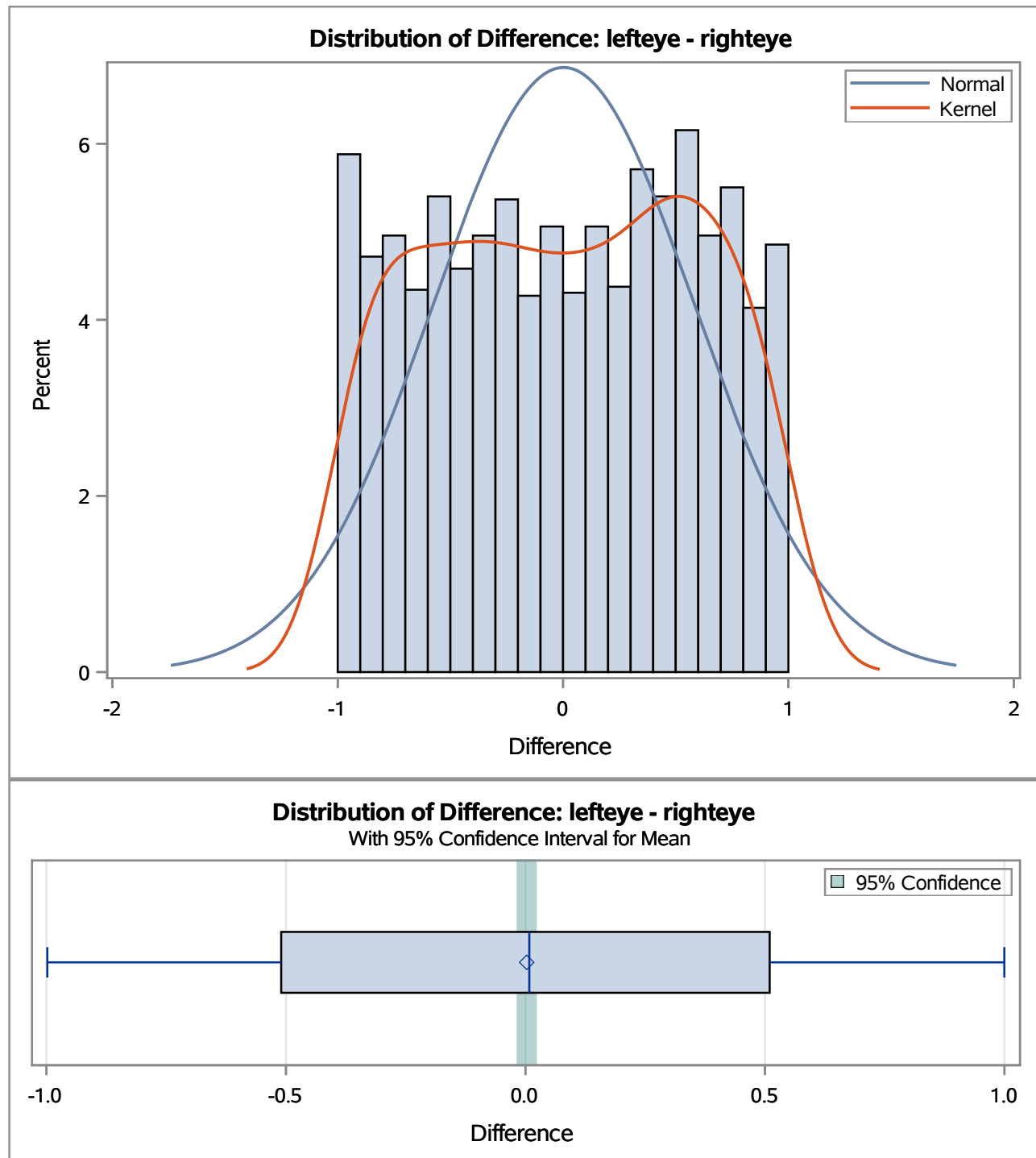
Mean	95% CL Mean	Std Dev	95% CL Std Dev
0.00256	-0.0185 0.0236	0.5810	0.5665 0.5963

DF	t Value	Pr >  t
2924	0.24	0.8120



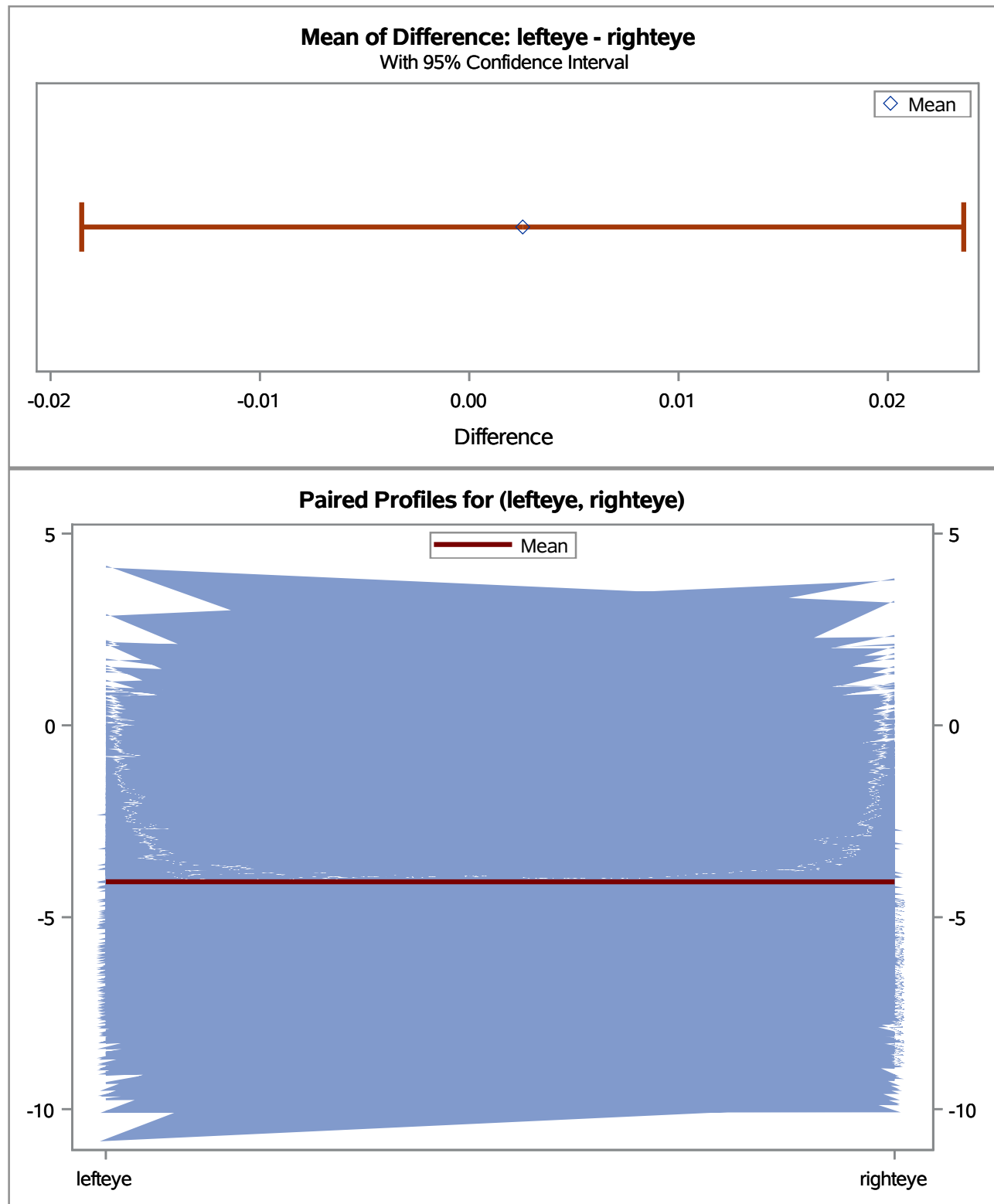
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gender=female



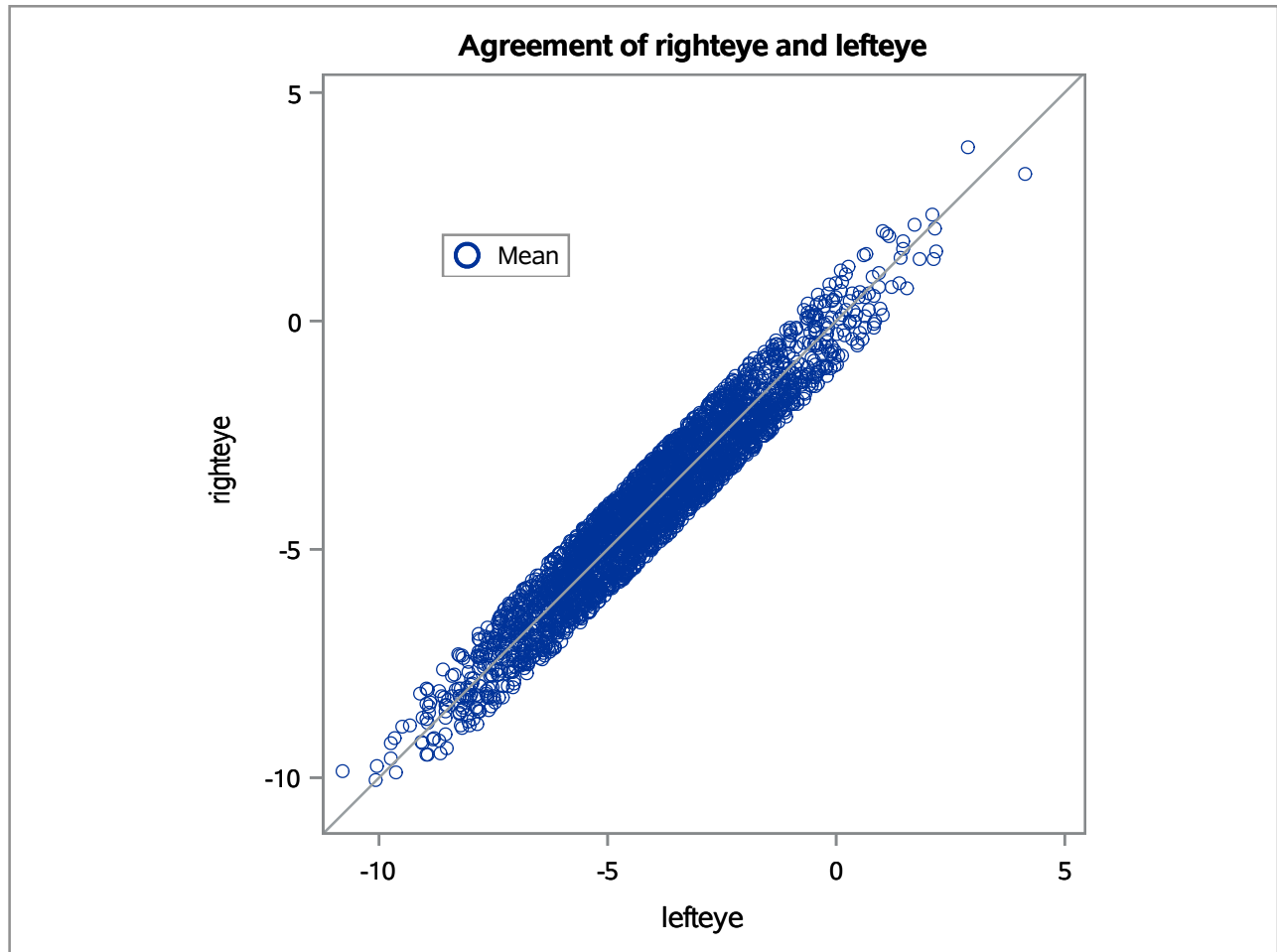
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gender=female



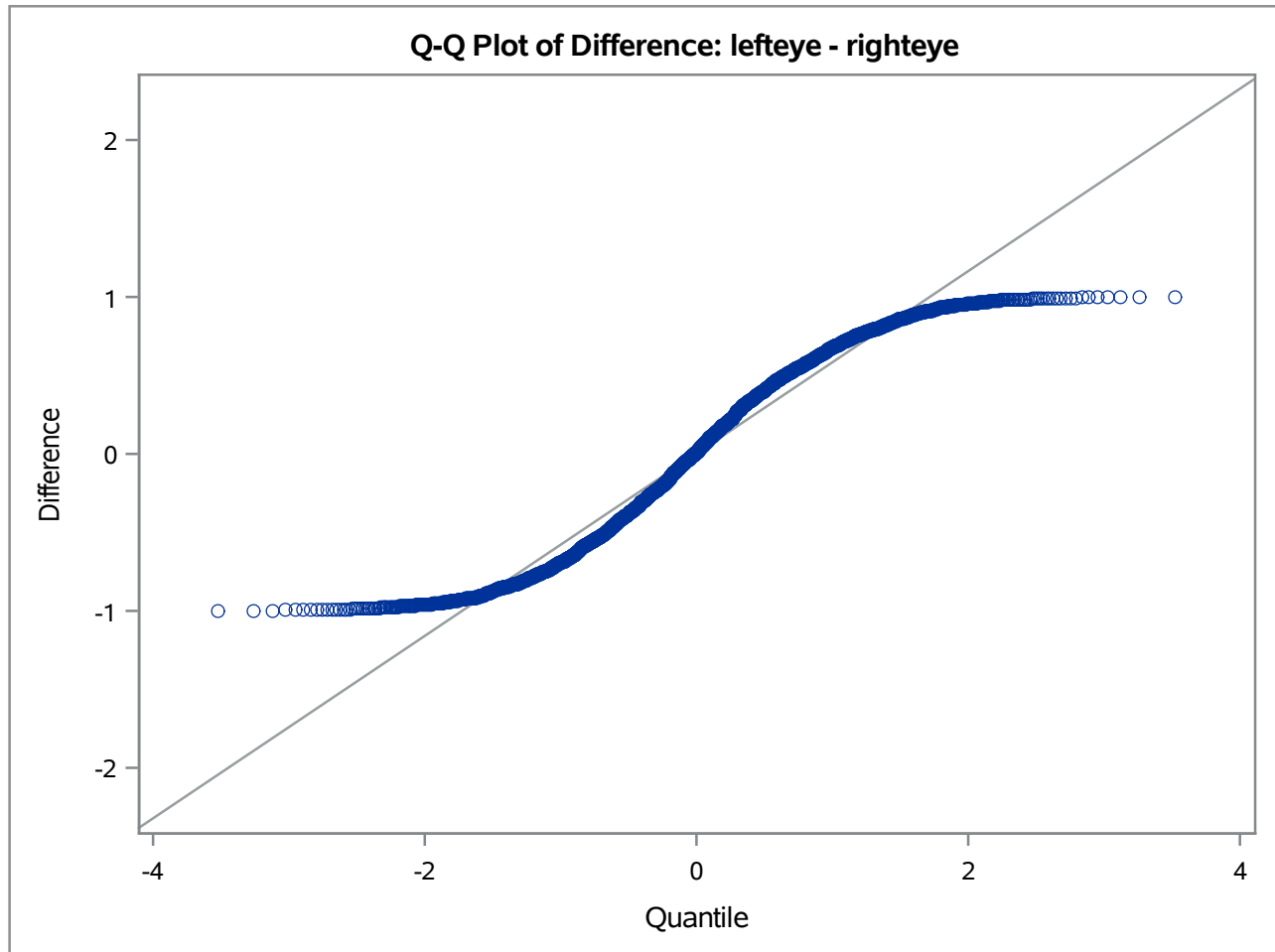
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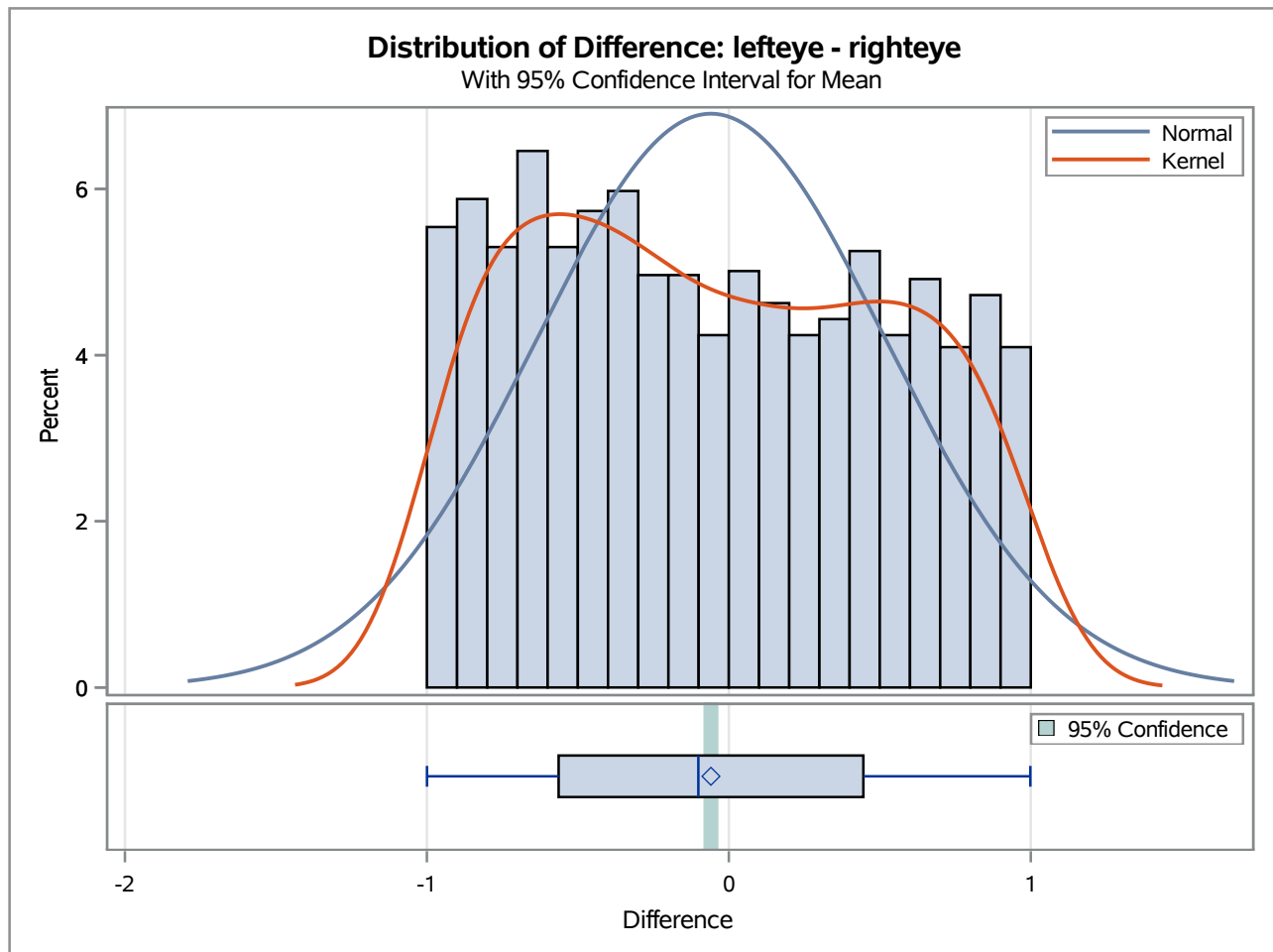
**DIFFERENCE BETWEEN LEFT & RIGHT EYE OF PATIENTS WITH MYOPIA****The TTEST Procedure****Difference: lefteye - righteye**

gender=male

N	Mean	Std Dev	Std Err	Minimum	Maximum
2075	-0.0593	0.5776	0.0127	-0.9995	0.9986

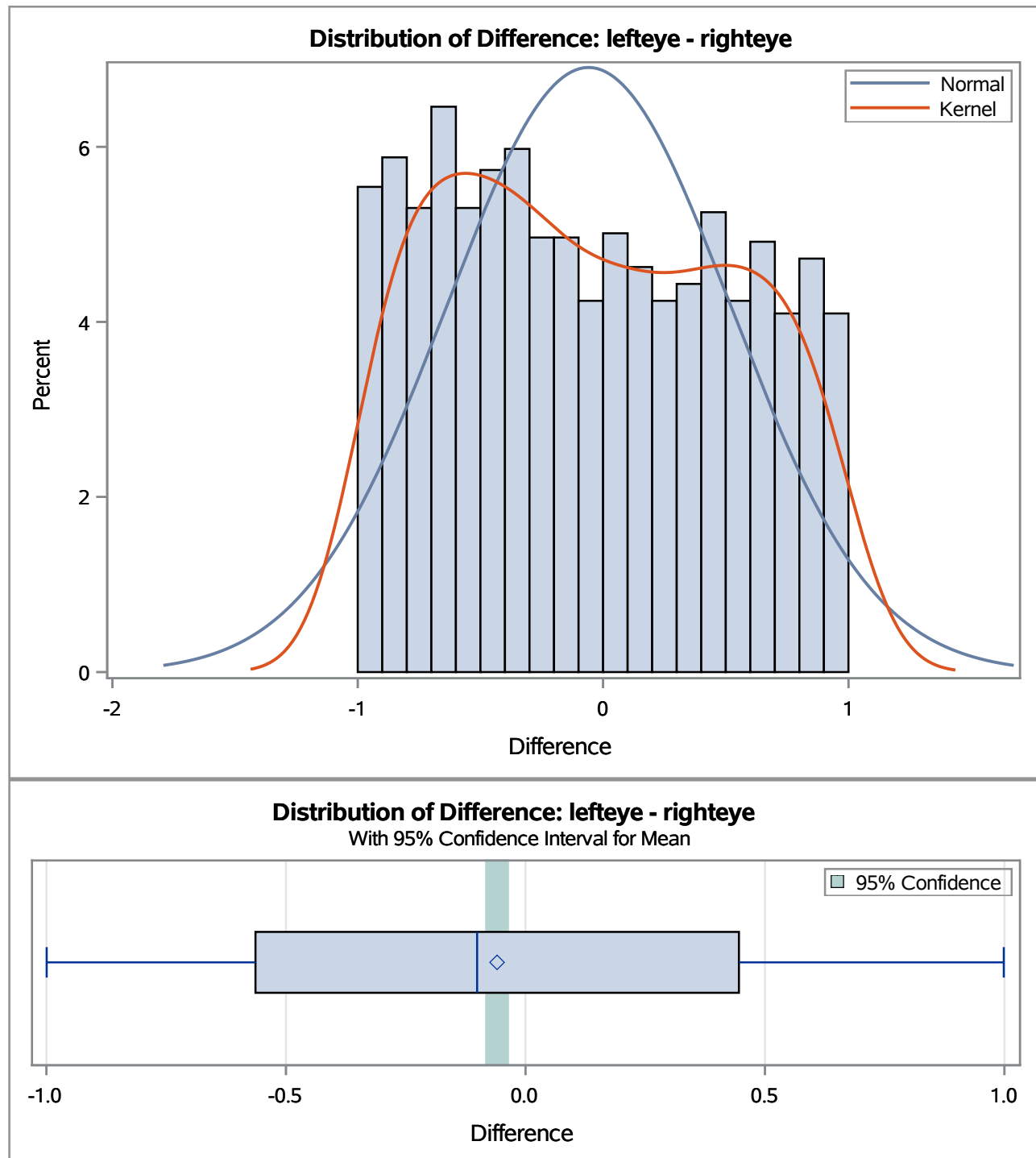
Mean	95% CL Mean		Std Dev	95% CL Std Dev	
-0.0593	-0.0841	-0.0344	0.5776	0.5606	0.5958

DF	t Value	Pr >  t
2074	-4.67	<.0001



**DIFFERENCE BETWEEN LEFT & RIGHT EYE OF PATIENTS WITH MYOPIA****The TTEST Procedure****Difference: lefteye - righteye**

gender=male

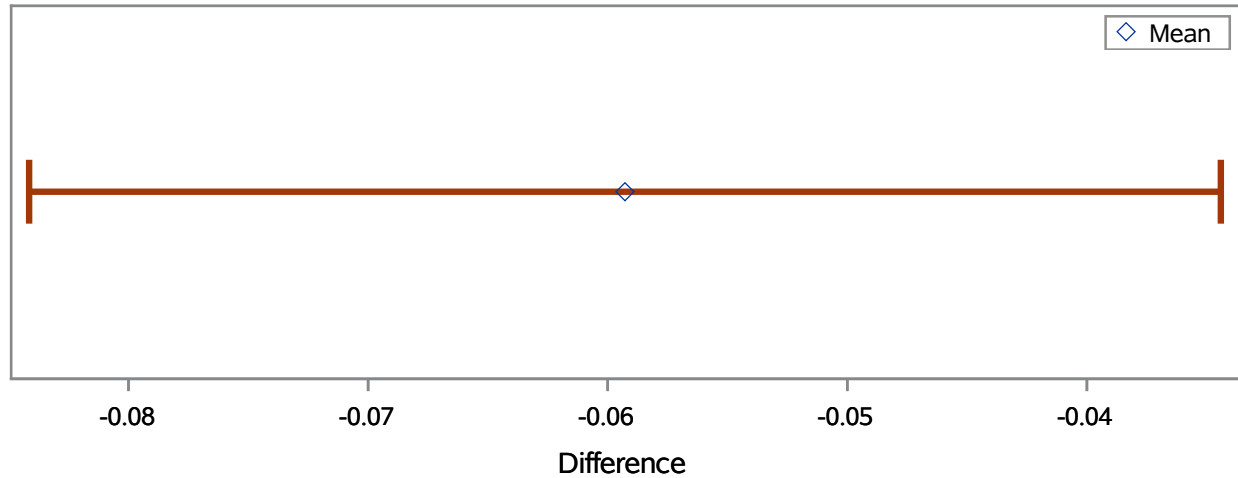
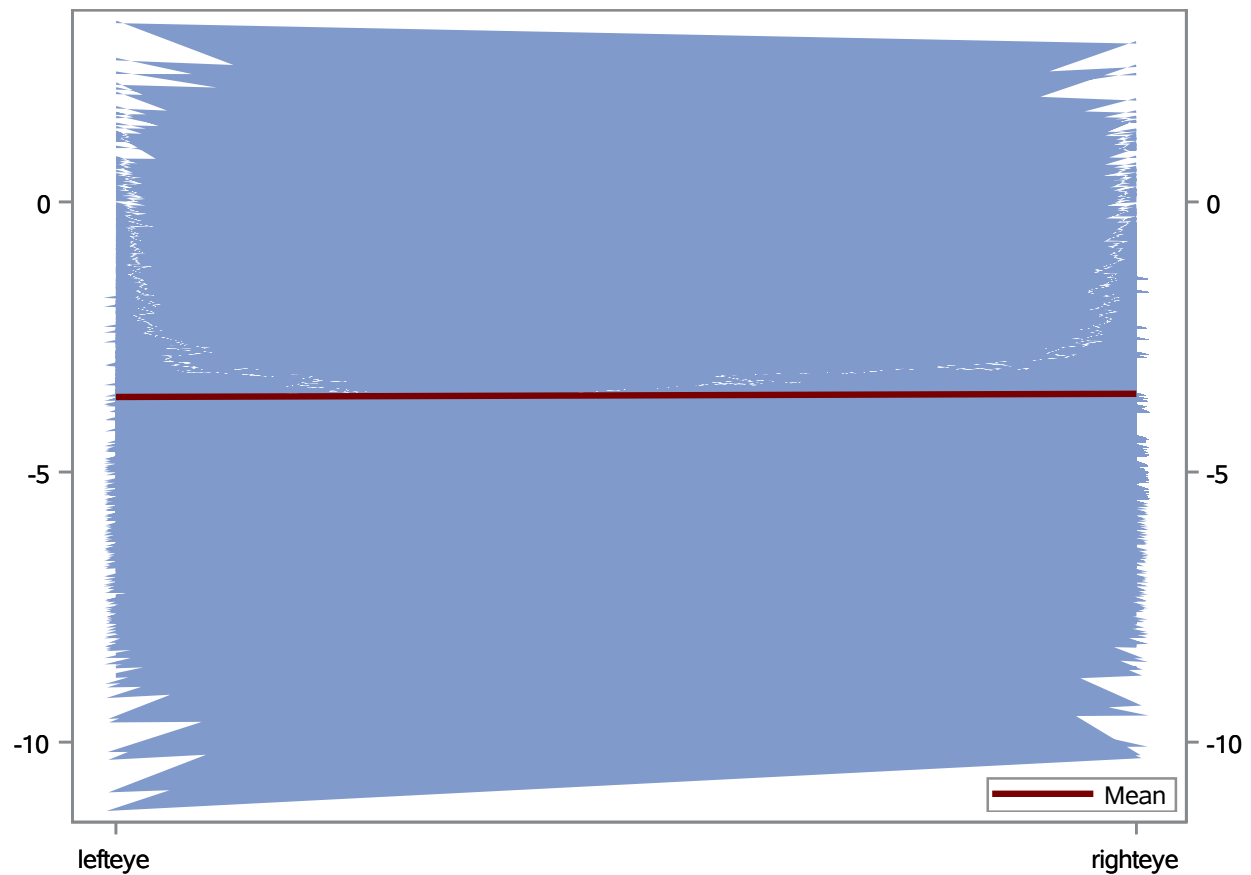




**DIFFERENCE BETWEEN LEFT & RIGHT EYE OF PATIENTS WITH MYOPIA****The TTEST Procedure**

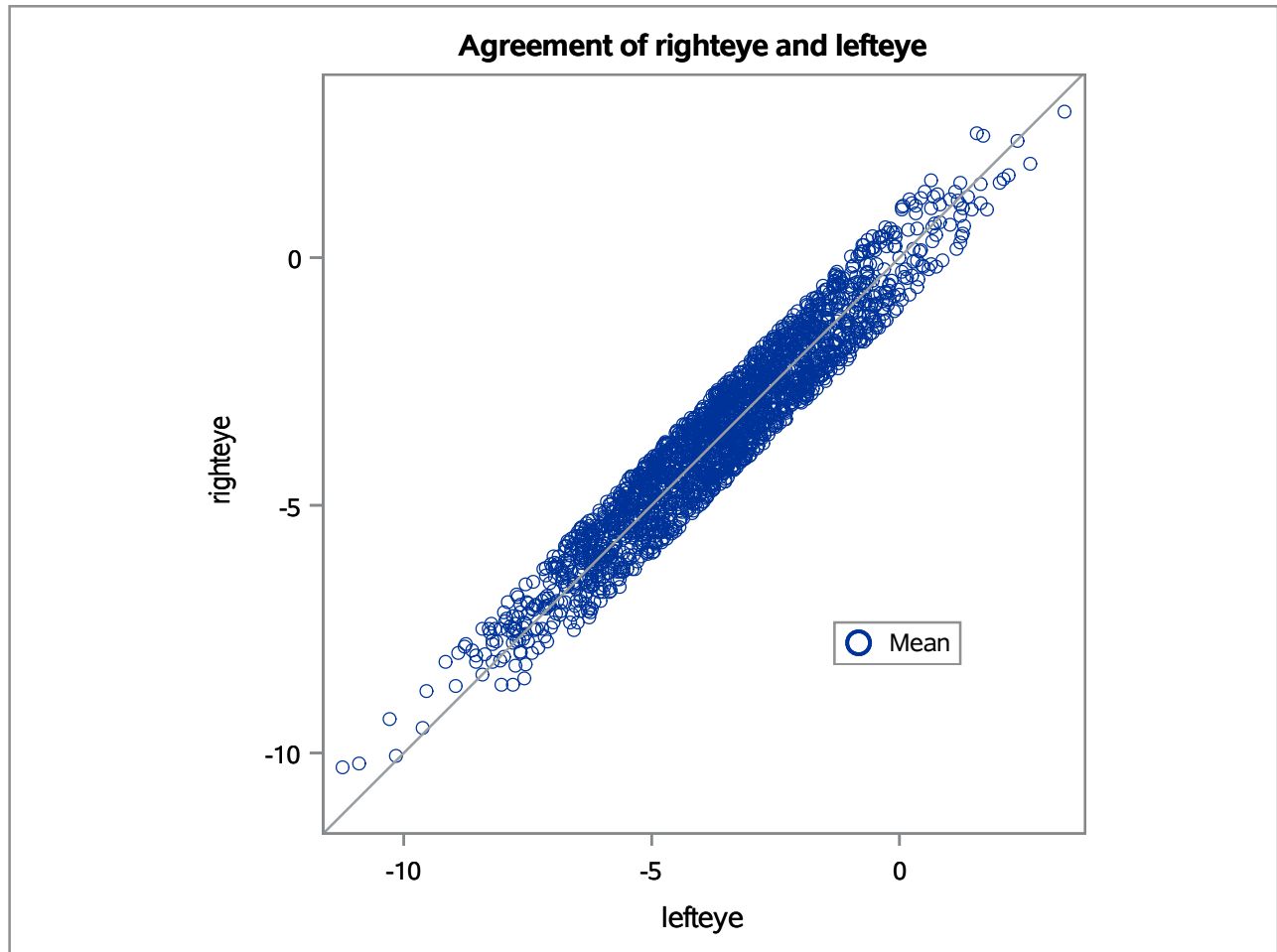
Difference: lefteye - righteye

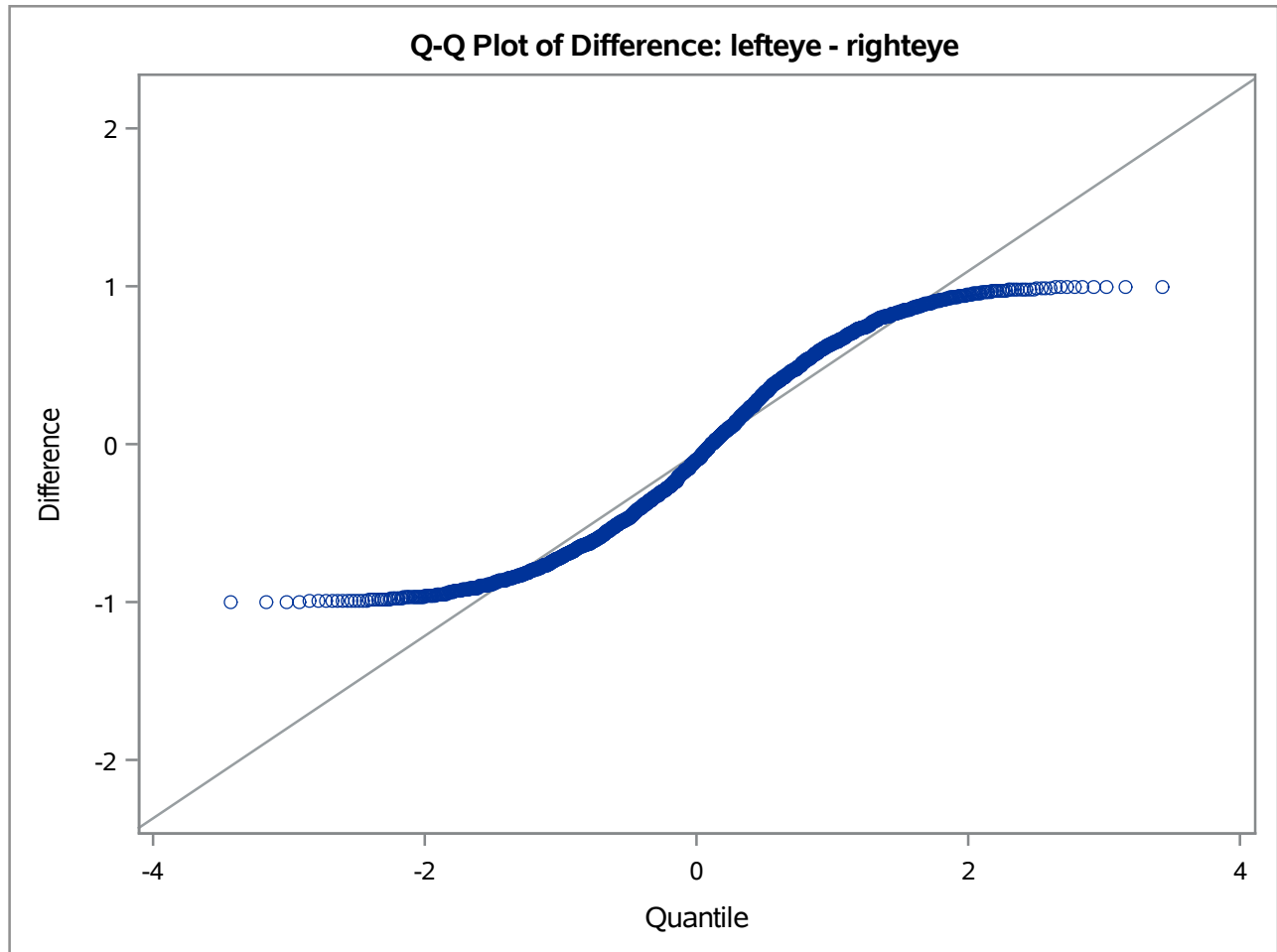
gender=male

**Mean of Difference: lefteye - righteye**  
With 95% Confidence Interval**Paired Profiles for (lefteye, righteye)**

**DIFFERENCE BETWEEN LEFT & RIGHT EYE OF PATIENTS WITH MYOPIA****The TTEST Procedure****Difference: lefteye - righteye**

gender=male



**DIFFERENCE BETWEEN LEFT & RIGHT EYE OF PATIENTS WITH MYOPIA****The TTEST Procedure****Difference: lefteye - righteye****gender=male**

**ODDS RATIO OF PATIENTS WITH GREATER MYOPIC ON LEFT OR RIGHT EYE****The FREQ Procedure**

Frequency Percent Row Pct Col Pct	Table of gender by PATIENT			
	gender(gender)	PATIENT		
		LEFT_MYOPIC	RIGHT_MYOPIC	Total
	female	1476	1449	2925
		29.52	28.98	58.50
50.46		49.54		
60.92		56.23		
male	947	1128	2075	
	18.94	22.56	41.50	
	45.64	54.36		
	39.08	43.77		
Total	2423	2577	5000	
	48.46	51.54	100.00	

**Statistics for Table of gender by PATIENT**

Statistic	DF	Value	Prob
Chi-Square	1	11.3052	0.0008
Likelihood Ratio Chi-Square	1	11.3138	0.0008
Continuity Adj. Chi-Square	1	11.1129	0.0009
Mantel-Haenszel Chi-Square	1	11.3029	0.0008
Phi Coefficient		0.0476	
Contingency Coefficient		0.0475	
Cramer's V		0.0476	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	1476
Left-sided Pr <= F	0.9997
Right-sided Pr >= F	0.0004
Table Probability (P)	<.0001
Two-sided Pr <= P	0.0008

**Sample Size = 5000**

**ODDS RATIO OF PATIENTS WITH GREATER MYOPIC ON LEFT OR RIGHT EYE****The FREQ Procedure****Summary Statistics for gender by PATIENT**

Cochran-Mantel-Haenszel Statistics (Based on Table Scores)				
Statistic	Alternative Hypothesis	DF	Value	Prob
1	Nonzero Correlation	1	11.3029	0.0008
2	Row Mean Scores Differ	1	11.3029	0.0008
3	General Association	1	11.3029	0.0008

Common Odds Ratio and Relative Risks				
Statistic	Method	Value	95% Confidence Limits	
Odds Ratio	Mantel-Haenszel	1.2133	1.0839	1.3582
	Logit	1.2133	1.0839	1.3582
Relative Risk (Column 1)	Mantel-Haenszel	1.1057	1.0422	1.1730
	Logit	1.1057	1.0422	1.1730
Relative Risk (Column 2)	Mantel-Haenszel	0.9113	0.8636	0.9616
	Logit	0.9113	0.8636	0.9616

**Total Sample Size = 5000**

**RISK RATIO OF MYOPIC PATIENTS BY AGE****The FREQ Procedure**

Frequency Percent Row Pct Col Pct	Table of age by PATIENT			
	age(age)	PATIENT		
		LEFT_MYOPIC	RIGHT_MYOPIC	Total
	<b>UNDER 20</b>	96 1.92 46.60 3.96	110 2.20 53.40 4.27	206 4.12
	<b>20 TO 29</b>	346 6.92 48.19 14.28	372 7.44 51.81 14.44	718 14.36
	<b>30 TO 39</b>	862 17.24 47.84 35.58	940 18.80 52.16 36.48	1802 36.04
	<b>40 TO 49</b>	799 15.98 50.09 32.98	796 15.92 49.91 30.89	1595 31.90
	<b>50 TO 59</b>	264 5.28 45.44 10.90	317 6.34 54.56 12.30	581 11.62
	<b>60 AND OVER</b>	56 1.12 57.14 2.31	42 0.84 42.86 1.63	98 1.96
	<b>Total</b>	2423 48.46	2577 51.54	5000 100.00

**Statistics for Table of age by PATIENT**

Statistic	DF	Value	Prob
Chi-Square	5	7.3734	0.1943
Likelihood Ratio Chi-Square	5	7.3813	0.1938
Mantel-Haenszel Chi-Square	1	0.5358	0.4642
Phi Coefficient		0.0384	
Contingency Coefficient		0.0384	
Cramer's V		0.0384	

**Sample Size = 5000**

**RISK RATIO OF MYOPIC PATIENTS BY AGE****The FREQ Procedure****Summary Statistics for age by PATIENT**

Cochran-Mantel-Haenszel Statistics (Based on Table Scores)				
Statistic	Alternative Hypothesis	DF	Value	Prob
1	Nonzero Correlation	1	0.5358	0.4642
2	Row Mean Scores Differ	5	7.3719	0.1944
3	General Association	5	7.3719	0.1944

**Total Sample Size = 5000**