The GLM Procedure

Class Level Information

Class	Levels	Values
TRETGRP	3	3 4 5
SEX	2	0 1

Number of observations 916

The GLM Procedure

Dependent Variable: CHOLEST

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	62153.369	12430.674	6.85	<.0001
Error	910	1652345.697	1815.765		
Corrected Total	915	1714499.066			

R-Square	Coeff Var	Root MSE	CHOLEST Mean
0.036252	18.58863	42.61179	229.2358

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRETGRP	2	3107.92135	1553.96067	0.86	0.4253
SEX	1	55736.25417	55736.25417	30.70	<.0001
TRETGRP*SEX	2	1300.86236	650.43118	0.36	0.6990

The GLM Procedure

Level of TRETGRP	N	CHOLEST Mean	CHOLEST Std Dev
3	305	229.219672	44.1896437
4	306	226.307190	39.6880097
5	305	232.190164	45.7095727

Level of SEX	N	CHOLEST Mean	CHOLEST Std Dev
0	422	220.672986	39.9861280
1	494	236.550607	44.6758039

Level of TRETGRP	Level of SEX	N	CHOLEST Mean	CHOLEST Std Dev
3	0	140	221.050000	40.6714021
3	1	165	236.151515	45.9604292
4	0	152	219.730263	36.5471609
4	1	154	232.798701	41.6696281
5	0	130	221.369231	43.2494367
5	1	175	240.228571	45.9472997

The GLM Procedure

Class Level Information

Class	Levels	Values
TRETGRP	3	3 4 5
SEX	2	0 1

Number of observations 916

NOTE: Due to missing values, only 902 observations can be used in this analysis.

The GLM Procedure

Dependent Variable: CHOLEST6

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	66255.585	13251.117	8.87	<.0001
Error	896	1338703.566	1494.089		
Corrected Total	901	1404959.151			

R-Square	Coeff Var	Root MSE	CHOLEST6 Mean
0.047158	16.43850	38.65344	235.1397

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRETGRP	2	4217.87705	2108.93853	1.41	0.2443
SEX	1	62499.17341	62499.17341	41.83	<.0001
TRETGRP*SEX	2	671.34895	335.67448	0.22	0.7988

The GLM Procedure

Level of TRETGRP	N	CHOLEST6 Mean	CHOLEST6 Std Dev
3	298	237.686088	39.7181238
4	303	234.625045	36.9956777
5	301	233.136835	41.6281778

Level of SEX	N	CHOLEST6 Mean	CHOLEST6 Std Dev
0	420	226.289377	36.3380418
1	482	242.851643	40.5298809

Level of TRETGRP	Level of SEX	N	CHOLEST6 Mean	CHOLEST6 Std Dev
3	0	139	228.785843	36.4977807
3	1	159	245.466805	40.8812336
4	0	152	227.340100	34.1229691
4	1	151	241.958234	38.4129882
5	0	129	222.361324	38.5880009
5	1	172	241.218469	42.0986744

The GLM Procedure

Class Level Information

Class	Levels	Values
TRETGRP	3	3 4 5
SEX	2	0 1

Number of observations 916

The GLM Procedure

Dependent Variable: CHOLEST

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	60852.506	20284.169	11.19	<.0001
Error	912	1653646.559	1813.209		
Corrected Total	915	1714499.066			

R-Square	Coeff Var	Root MSE	CHOLEST Mean
0.035493	18.57554	42.58179	229.2358

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRETGRP	2	3478.54778	1739.27389	0.96	0.3836
SEX	1	55565.81757	55565.81757	30.65	<.0001

The GLM Procedure
Least Squares Means

TRETGRP	CHOLEST LSMEAN	Standard Error	Pr > |t|	LSMEAN Number
3	228.578213	2.440978	<.0001	1
4	226.256041	2.434257	<.0001	2
5	231.035538	2.447131	<.0001	3

Least Squares Means for effect TRETGRP
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: CHOLEST

i/j	1	2	3
1		0.5007	0.4764
2	0.5007		0.1664
3	0.4764	0.1664	

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

SEX	CHOLEST LSMEAN	Standard Error	H0:LSMEAN=0 Pr > |t|	H0:LSMean1= LSMean2 Pr > |t|
0	220.797463	2.074805	<.0001	<.0001
1	236.449064	1.917250	<.0001	

The GLM Procedure

Class Level Information

Class	Levels	Values
TRETGRP	3	3 4 5
SEX	2	0 1

Number of observations 916

NOTE: Due to missing values, only 902 observations can be used in this analysis.

The GLM Procedure

Dependent Variable: CHOLEST6

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	65584.236	21861.412	14.66	<.0001
Error	898	1339374.915	1491.509		
Corrected Total	901	1404959.151			

R-Square	Coeff Var	Root MSE	CHOLEST6 Mean
0.046681	16.42430	38.62006	235.1397

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRETGRP	2	4019.88257	2009.94128	1.35	0.2604
SEX	1	62364.26951	62364.26951	41.81	<.0001

The GLM Procedure
Least Squares Means

TRETGRP	CHOLEST6 LSMEAN	Standard Error	Pr > |t|	LSMEAN Number
3	237.125700	2.238878	<.0001	1
4	234.652602	2.218668	<.0001	2
5	231.944010	2.233653	<.0001	3

Least Squares Means for effect TRETGRP
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: CHOLEST6

i/j	1	2	3
1		0.4329	0.1011
2	0.4329		0.3899
3	0.1011	0.3899	

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

SEX	CHOLEST6 LSMEAN	Standard Error	H0:LSMEAN=0 Pr > |t|	H0:LSMean1= LSMean2 Pr > |t|
0	226.224326	1.886447	<.0001	<.0001
1	242.923882	1.760458	<.0001	

The GLM Procedure

Class Level Information

Class	Levels	Values
z	6	1 2 3 4 5 6

Number of observations 916

The GLM Procedure

Dependent Variable: CHOLEST

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	62153.369	12430.674	6.85	<.0001
Error	910	1652345.697	1815.765		
Corrected Total	915	1714499.066			

R-Square	Coeff Var	Root MSE	CHOLEST Mean
0.036252	18.58863	42.61179	229.2358

Source	DF	Type I SS	Mean Square	F Value	Pr > F
z	5	62153.36879	12430.67376	6.85	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
z	5	62153.36879	12430.67376	6.85	<.0001

The GLM Procedure

Bartlett's Test for Homogeneity of CHOLEST Variance

Source	DF	Chi-Square	Pr > ChiSq
z	5	11.2622	0.0464

The GLM Procedure

Level of z	CHOLEST N	CHOLEST Mean	CHOLEST Std Dev
1	140	221.050000	40.6714021
2	152	219.730263	36.5471609
3	130	221.369231	43.2494367
4	165	236.151515	45.9604292
5	154	232.798701	41.6696281
6	175	240.228571	45.9472997

distribution of residuals from saturated (interaction) model

The UNIVARIATE Procedure
Variable: res

Moments

N	916	Sum Weights	916
Mean	0	Sum Observations	0
Std Deviation	42.4952032	Variance	1805.84229
Skewness	0.47074728	Kurtosis	0.71444301
Uncorrected SS	1652345.7	Corrected SS	1652345.7
Coeff Variation	.	Std Error Mean	1.40408103

Basic Statistical Measures

Location		Variability	
Mean	0.0000	Std Deviation	42.49520
Median	-2.9244	Variance	1806
Mode	-30.1515	Range	311.64719
		Interquartile Range	55.82359

NOTE: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: Mu0=0

Test	-Statistic-		-----p Value------	
Student's t	t	0	Pr > |t|	1.0000
Sign	M	-24	Pr >= |M|	0.1204
Signed Rank	S	-7918	Pr >= |S|	0.3231

distribution of residuals from saturated (interaction) model

The UNIVARIATE Procedure
Variable: res

Tests for Normality

Test		--Statistic---	-----p Value------	
Shapiro-Wilk	W	0.987676	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.034491	Pr > D	<0.0100
Cramer-von Mises	W-Sq	0.244507	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	1.588224	Pr > A-Sq	<0.0050

Quantiles (Definition 5)

Quantile	Estimate
100% Max	191.84848
99%	112.63077
95%	73.63077
90%	55.95000
75% Q3	25.89924
50% Median	-2.92435
25% Q1	-29.92435
10%	-54.05000
5%	-64.15152
1%	-85.22857
0% Min	-119.79870

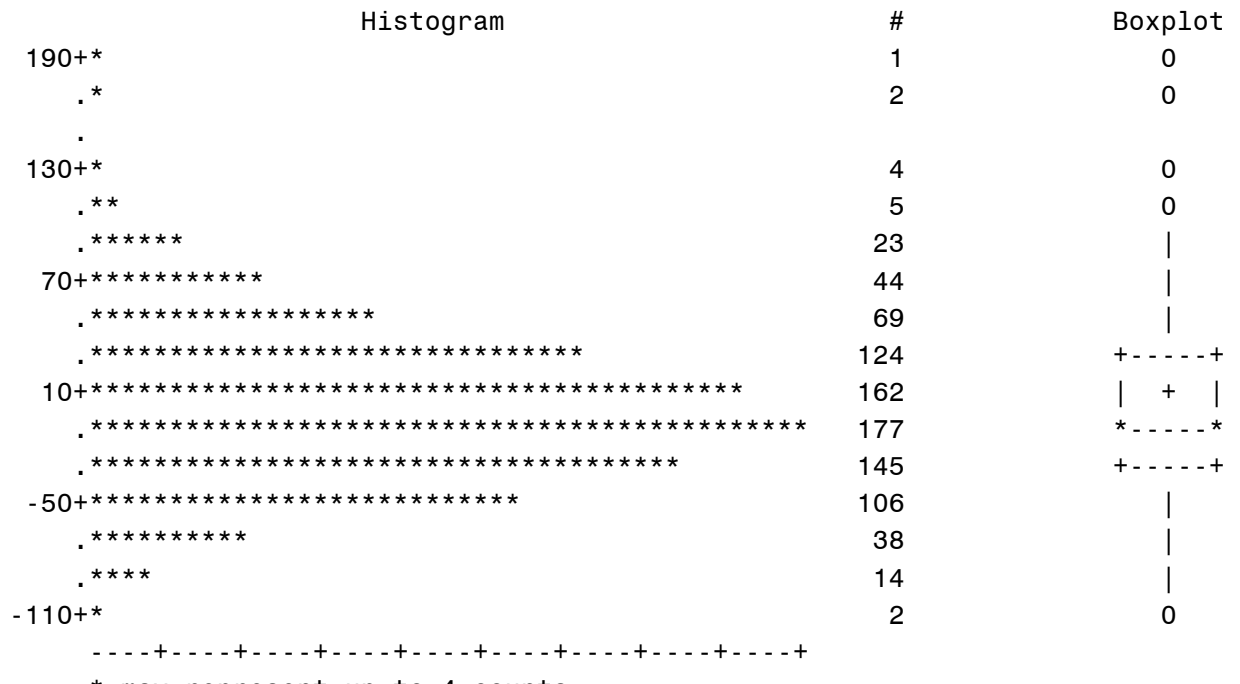
Extreme Observations

------Lowest------		-----Highest-----	
Value	Obs	Value	Obs
-119.7987	843	132.771	214

The UNIVARIATE Procedure
Variable: res

Extreme Observations

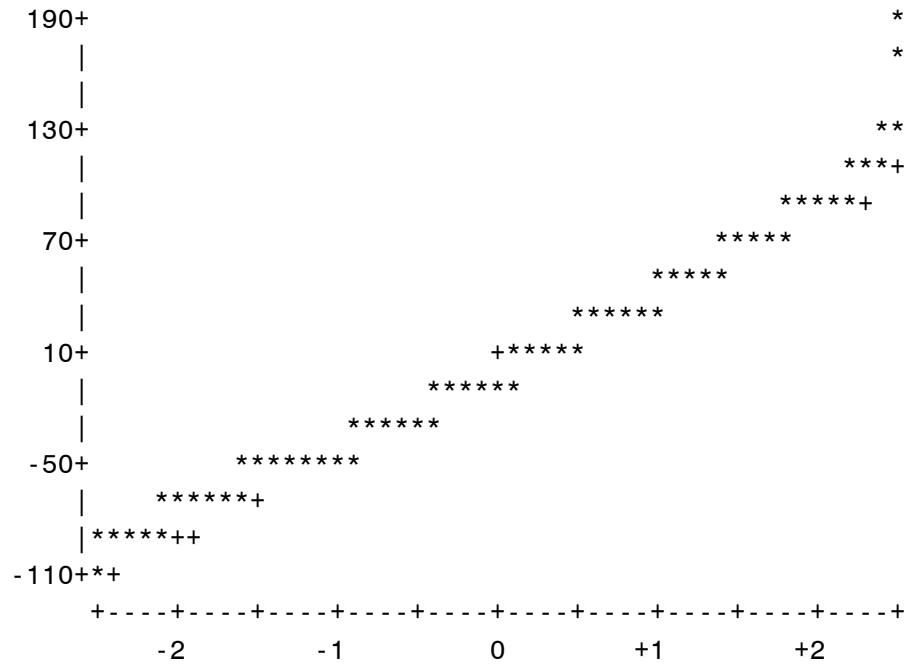
------Lowest------		-----Highest-----	
Value	Obs	Value	Obs
-99.2286	40	169.631	174
-93.2286	872	177.771	43
-92.7987	845	191.848	566



distribution of residuals from saturated (interaction) model

The UNIVARIATE Procedure
Variable: res

Normal Probability Plot



The GLM Procedure

Class Level Information

Class	Levels	Values
z	6	1 2 3 4 5 6

Number of observations 916

NOTE: Due to missing values, only 902 observations can be used in this analysis.

The GLM Procedure

Dependent Variable: CHOLEST6

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	66255.585	13251.117	8.87	<.0001
Error	896	1338703.566	1494.089		
Corrected Total	901	1404959.151			

R-Square	Coeff Var	Root MSE	CHOLEST6 Mean
0.047158	16.43850	38.65344	235.1397

Source	DF	Type I SS	Mean Square	F Value	Pr > F
z	5	66255.58541	13251.11708	8.87	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
z	5	66255.58541	13251.11708	8.87	<.0001

The GLM Procedure

Bartlett's Test for Homogeneity of CHOLEST6 Variance

Source	DF	Chi-Square	Pr > ChiSq
z	5	8.8624	0.1147

The GLM Procedure

Level of z	CHOLEST6 N	CHOLEST6 Mean	CHOLEST6 Std Dev
1	139	228.785843	36.4977807
2	152	227.340100	34.1229691
3	129	222.361324	38.5880009
4	159	245.466805	40.8812336
5	151	241.958234	38.4129882
6	172	241.218469	42.0986744

distribution of residuals from saturated (interaction) model

The UNIVARIATE Procedure
Variable: res

Moments

N	902	Sum Weights	902
Mean	0	Sum Observations	0
Std Deviation	38.5460442	Variance	1485.79752
Skewness	0.20182415	Kurtosis	-0.0478482
Uncorrected SS	1338703.57	Corrected SS	1338703.57
Coeff Variation	.	Std Error Mean	1.28344288

Basic Statistical Measures

Location		Variability	
Mean	0.00000	Std Deviation	38.54604
Median	-1.92780	Variance	1486
Mode	.	Range	234.28714
		Interquartile Range	53.14313

Tests for Location: Mu0=0

Test	-Statistic-		-----p Value------	
Student's t	t	0	Pr > |t|	1.0000
Sign	M	-14	Pr >= |M|	0.3687
Signed Rank	S	-3591.5	Pr >= |S|	0.6466

Tests for Normality

Test	--Statistic---		-----p Value------	
Shapiro-Wilk	W	0.996478	Pr < W	0.0412
Kolmogorov-Smirnov	D	0.022127	Pr > D	>0.1500

distribution of residuals from saturated (interaction) model

The UNIVARIATE Procedure
Variable: res

Tests for Normality

Test	--Statistic---		-----p Value------	
Cramer-von Mises	W-Sq	0.070274	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.50466	Pr > A-Sq	0.2114

Quantiles (Definition 5)

Quantile	Estimate
100% Max	136.2699
99%	90.8901
95%	65.5652
90%	49.3750
75% Q3	26.3288
50% Median	-1.9278
25% Q1	-26.8144
10%	-48.9277
5%	-62.0858
1%	-82.4718
0% Min	-98.0173

Extreme Observations

------Lowest-----		-----Highest-----	
Value	Obs	Value	Obs
-98.0173	843	103.288	453
-97.4007	845	109.546	503
-96.2127	272	112.714	67
-94.1247	245	126.499	43

distribution of residuals from saturated (interaction) model

The UNIVARIATE Procedure
Variable: res

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
-90.4523	435	136.270	174

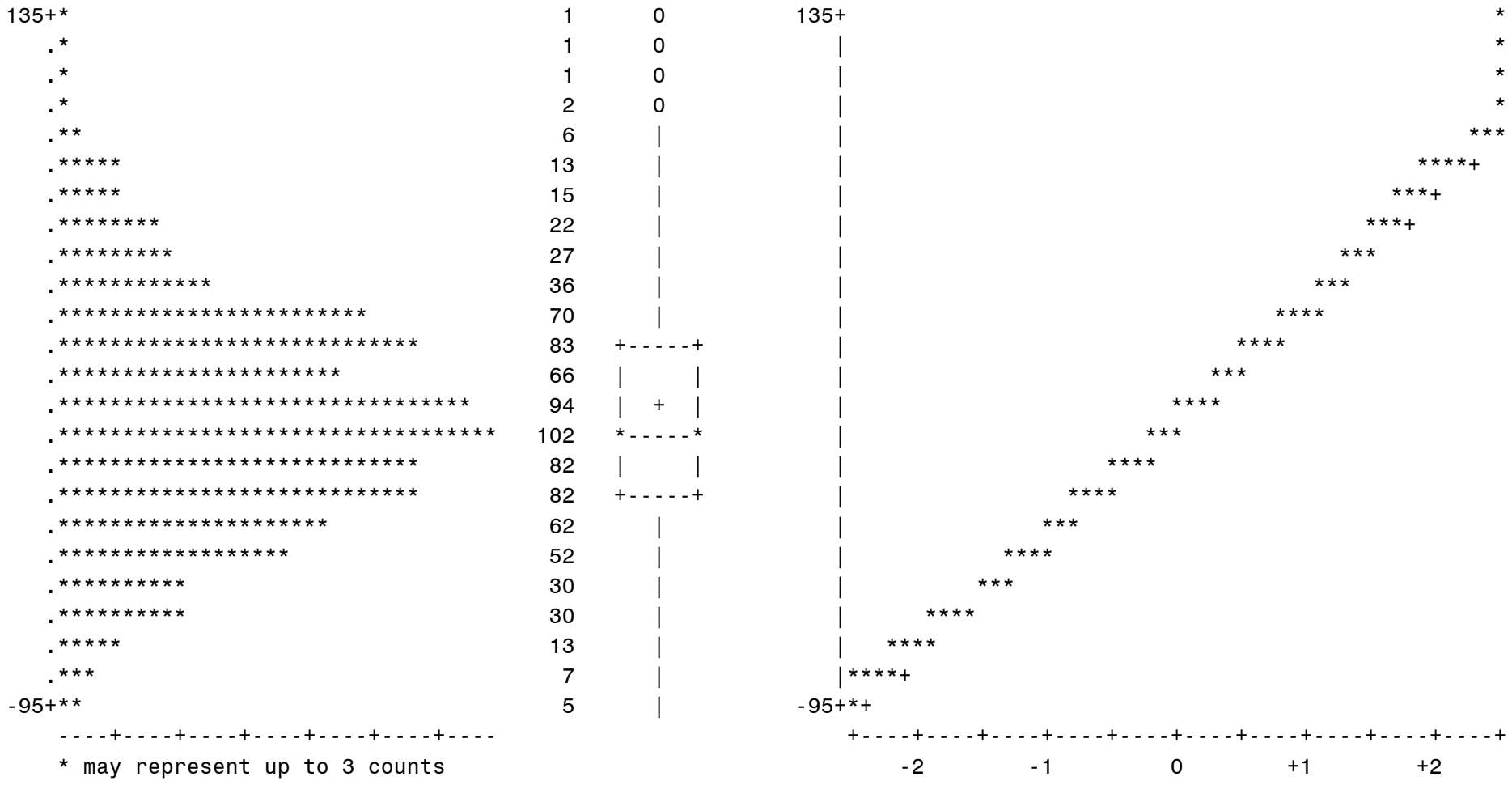
Missing Values

Missing Value	Count	Percent Of All Obs	Percent Of Missing Obs
.	14	1.53	100.00

distribution of residuals from saturated (interaction) model

The UNIVARIATE Procedure

Variable: res



The REG Procedure
Model: MODEL1
Dependent Variable: CHOLEST6

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	933632	933632	1782.77	<.0001
Error	900	471327	523.69675		
Corrected Total	901	1404959			

Root MSE	22.88442	R-Square	0.6645
Dependent Mean	235.13972	Adj R-Sq	0.6642
Coeff Var	9.73227		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	63.52631	4.13527	15.36	<.0001
CHOLEST	1	0.75024	0.01777	42.22	<.0001

The GLM Procedure

Class Level Information

Class	Levels	Values
TRETGRP	3	3 4 5
SEX	2	0 1

Number of observations 916

NOTE: Due to missing values, only 902 observations can be used in this analysis.

The GLM Procedure

Dependent Variable: CHOLEST6

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	947400.487	157900.081	308.86	<.0001
Error	895	457558.664	511.239		
Corrected Total	901	1404959.151			

R-Square	Coeff Var	Root MSE	CHOLEST6 Mean
0.674326	9.615810	22.61059	235.1397

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRETGRP	2	8296.1071	4148.0535	8.11	0.0003
SEX	1	5957.6038	5957.6038	11.65	0.0007
TRETGRP*SEX	2	2.5697	1.2849	0.00	0.9975
CHOLEST	1	881144.9018	881144.9018	1723.55	<.0001

Parameter		Estimate		Standard Error	t Value	Pr > |t|
Intercept		63.58925805	B	4.61289633	13.79	<.0001
TRETGRP	3	6.75779178	B	2.48823428	2.72	0.0067
TRETGRP	4	5.92964977	B	2.52460546	2.35	0.0191
TRETGRP	5	0.00000000	B	.	.	.
SEX	0	-5.37436591	B	2.65346578	-2.03	0.0431
SEX	1	0.00000000	B	.	.	.
TRETGRP*SEX	3 0	0.26316353	B	3.71898465	0.07	0.9436
TRETGRP*SEX	3 1	0.00000000	B	.	.	.
TRETGRP*SEX	4 0	0.11806041	B	3.70058020	0.03	0.9746

The GLM Procedure

Dependent Variable: CHOLEST6

Parameter	Estimate	Standard Error	t Value	Pr > |t|
TRETGRP*SEX 4 1	0.00000000 B	.	.	.
TRETGRP*SEX 5 0	0.00000000 B	.	.	.
TRETGRP*SEX 5 1	0.00000000 B	.	.	.
CHOLEST	0.74217131	0.01787691	41.52	<.0001

NOTE: The X'X matrix has been found to be singular, and a generalized inverse was used to solve the normal equations.
Terms whose estimates are followed by the letter 'B' are not uniquely estimable.

The GLM Procedure

Class Level Information

Class	Levels	Values
TRETGRP	3	3 4 5
SEX	2	0 1

Number of observations 916

NOTE: Due to missing values, only 902 observations can be used in this analysis.

The GLM Procedure

Dependent Variable: CHOLEST6

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	947397.918	236849.479	464.32	<.0001
Error	897	457561.234	510.102		
Corrected Total	901	1404959.151			

R-Square	Coeff Var	Root MSE	CHOLEST6 Mean
0.674324	9.605111	22.58543	235.1397

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRETGRP	2	8367.0068	4183.5034	8.20	0.0003
SEX	1	5958.2449	5958.2449	11.68	0.0007
CHOLEST	1	881813.6810	881813.6810	1728.70	<.0001

Parameter		Estimate		Standard Error	t Value	Pr > |t|
Intercept		63.53142634	B	4.49309175	14.14	<.0001
TRETGRP	3	6.87575430	B	1.84699011	3.72	0.0002
TRETGRP	4	5.97963517	B	1.84297731	3.24	0.0012
TRETGRP	5	0.00000000	B	.	.	.
SEX	0	-5.24688626	B	1.53522087	-3.42	0.0007
SEX	1	0.00000000	B	.	.	.
CHOLEST		0.74218512		0.01785058	41.58	<.0001

The GLM Procedure

Dependent Variable: CHOLEST6

NOTE: The X'X matrix has been found to be singular, and a generalized inverse was used to solve the normal equations.
Terms whose estimates are followed by the letter 'B' are not uniquely estimable.

The GLM Procedure
Least Squares Means

TRETGRP	CHOLEST6 LSMEAN	Standard Error	Pr > |t|	LSMEAN Number
3	237.554881	1.309361	<.0001	1
4	236.658762	1.298398	<.0001	2
5	230.679127	1.306619	<.0001	3

Least Squares Means for effect TRETGRP
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: CHOLEST6

i/j	1	2	3
1		0.6271	0.0002
2	0.6271		0.0012
3	0.0002	0.0012	

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

SEX	CHOLEST6 LSMEAN	Standard Error	H0:LSMEAN=0 Pr > |t|	H0:LSMean1= LSMean2 Pr > |t|
0	232.340814	1.112980	<.0001	0.0007
1	237.587700	1.037504	<.0001	

The GLM Procedure

Class Level Information

Class	Levels	Values
TRETGRP	3	3 4 5
SEX	2	0 1

Number of observations 916

NOTE: Due to missing values, only 902 observations can be used in this analysis.

The GLM Procedure

Dependent Variable: CHOLEST6

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	949578.014	86325.274	168.71	<.0001
Error	890	455381.137	511.664		
Corrected Total	901	1404959.151			

R-Square	Coeff Var	Root MSE	CHOLEST6 Mean
0.675876	9.619810	22.62000	235.1397

Source	DF	Type III SS	Mean Square	F Value	Pr > F
TRETGRP	2	2473.0844	1236.5422	2.42	0.0898
SEX	1	128.3500	128.3500	0.25	0.6166
TRETGRP*SEX	2	773.6197	386.8099	0.76	0.4698
CHOLEST	1	843507.6849	843507.6849	1648.56	<.0001
CHOLEST*TRETGRP*SEX	5	2177.5266	435.5053	0.85	0.5136

Parameter		Estimate		Standard Error	t Value	Pr > |t|
Intercept		52.72183529	B	9.30821559	5.66	<.0001
TRETGRP	3	31.14615213	B	13.20657054	2.36	0.0186
TRETGRP	4	12.83870096	B	14.17122638	0.91	0.3652
TRETGRP	5	0.00000000	B	.	.	.
SEX	0	0.86879861	B	13.95066157	0.06	0.9504
SEX	1	0.00000000	B	.	.	.
TRETGRP*SEX	3 0	-19.50272534	B	19.96448626	-0.98	0.3289
TRETGRP*SEX	3 1	0.00000000	B			

The GLM Procedure

Dependent Variable: CHOLEST6

Parameter		Estimate		Standard Error	t Value	Pr > |t|
TRETGRP*SEX	4 0	4.23952618	B	20.84831608	0.20	0.8389
TRETGRP*SEX	4 1	0.00000000	B	.	.	.
TRETGRP*SEX	5 0	0.00000000	B	.	.	.
TRETGRP*SEX	5 1	0.00000000	B	.	.	.
CHOLEST		0.78757764	B	0.03821815	20.61	<.0001
CHOLEST*TRETGRP*SEX	3 0	-0.04539822	B	0.06146088	-0.74	0.4603
CHOLEST*TRETGRP*SEX	3 1	-0.10270912	B	0.05458299	-1.88	0.0602
CHOLEST*TRETGRP*SEX	4 0	-0.07456143	B	0.06322588	-1.18	0.2386
CHOLEST*TRETGRP*SEX	4 1	-0.02836967	B	0.05927012	-0.48	0.6323
CHOLEST*TRETGRP*SEX	5 0	-0.02449821	B	0.05989109	-0.41	0.6826
CHOLEST*TRETGRP*SEX	5 1	0.00000000	B	.	.	.

NOTE: The X'X matrix has been found to be singular, and a generalized inverse was used to solve the normal equations.
Terms whose estimates are followed by the letter 'B' are not uniquely estimable.