

Diabetes mellitus versus diabetes mellitus with complications

Analysis of Variance Report

Response Total Cost

Kruskal-Wallis One-Way ANOVA on Ranks

Hypotheses

Ho: All medians are equal.

Ha: At least two medians are different.

Test Results

Method	DF	Chi-Square (H)	Prob Level	Decision(0.05)
Not Corrected for Ties	1	14.41	0.000147	Reject Ho
Corrected for Ties	1	14.41	0.000147	Reject Ho
Number Sets of Ties	0			
Multiplicity Factor	0			

Group Detail

Group	Count	Sum of Ranks	Average Rank	Z-Value	Median
Complications	77	4352.00	56.52	3.79	3038.08
No complications	23	698.00	30.35	-3.79	1800.79

Means and Effects Section

Term	Average	Standard Error	Effect
All	4.67	73.80	
Complications	8.03	778.38	5254.22
No complications	2.56	1424.22	1978.75



Tukey-Kramer Multiple-Comparison Test

Response: Total Cost

Alpha=0.05 Error Term=S(A) DF=98 MSE=4.66E+07 Critical Value=2.80

Group	Count	Average
No complications	23	2052.56
Complications	77	5328.03

Notes:

This report provides multiple comparison tests for all pairwise differences between the means.

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Analysis of Variance Report (ANOVA)

Response Total Cost

Kruskal-Wallis Multiple-Comparison Z-Value Test

Total Cost	Complications	No complications
Complications	0.00	3.79
No complications	3.79	0.00

Regular Test: Medians significantly different if z-value > 1.96



Type I versus Type II diabetes mellitus

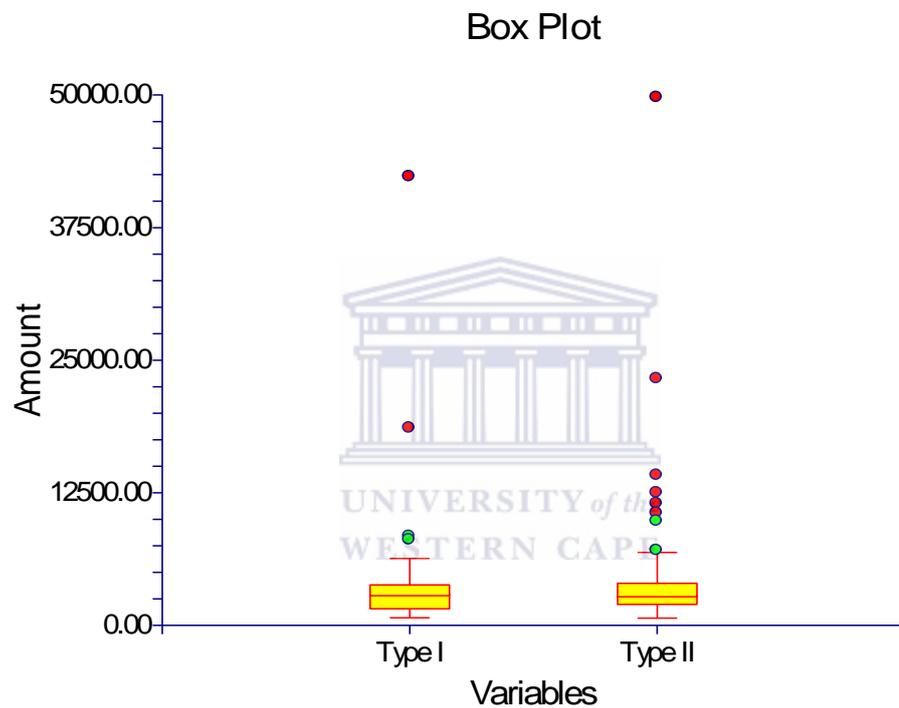
Analysis of Variance Report

Response Total Cost

Tests of Assumptions Section

Assumption	Test Value	Prob Level	Decision (0.05)
Skewness Normality of Residuals	9.26	0.00	Reject
Kurtosis Normality of Residuals	6.81	0.00	Reject
Omnibus Normality of Residuals	132.32	0.00	Reject
Modified-Levene Equal-Variance Test	0.32	0.56	Accept

Box Plot Section



Type I versus Type II diabetes mellitus

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Hypotheses

Ho: All medians are equal.

Ha: At least two medians are different.

Test Results

Method	DF	Chi-Square (H)	Prob Level	Decision(0.05)
Not Corrected for Ties	1	7.21E-02	0.788	Accept Ho
Corrected for Ties	1	7.21E-02	0.788	Accept Ho
Number Sets of Ties	0			
Multiplicity Factor	0			

Group Detail

Group	Count	Sum of Ranks	Average Rank	Z-Value	Median
Type I	28	1379.00	49.25	-0.2687	2938.42
Type II	72	3671.00	50.99	0.2687	2836.42

Means and Effects Section

Term	Count	Average	Standard Error	Effect
Type I	28	4990.29	1316	4896.26
Type II	72	4413.04	820.94	4319.00

Bonferroni (All-Pairwise) Multiple Comparison Test

Response: Total Cost

Term A: Type

Alpha=0.05 Error Term=S(A) DF=98 MSE=4.85E+07 Critical Value=1.98

Group	Count	Average
Type II	72	4413.04
Type I	28	4990.29

Notes:

This section presents the results of all paired comparisons among the means.

Since this procedure uses the Bonferroni inequality, it is not as accurate as the Tukey-Kramer's method.

Type I versus Type II diabetes mellitus

Analysis of Variance Report (ANOVA)

Response Total Cost

Tukey-Kramer Multiple-Comparison Test

Response: Total Cost

Alpha=0.05 Error Term=S(A) DF=98 MSE=4.85E+07 Critical Value=2.80

Group	Count	Average
Type II	72	4413.04
Type I	28	4990.29

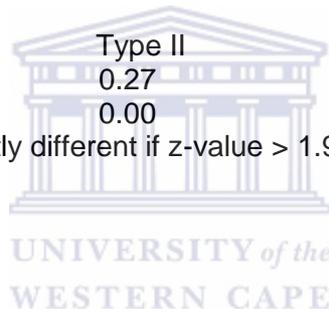
Notes:

This report provides multiple comparison tests for all pairwise differences between the means.

Kruskal-Wallis Multiple-Comparison Z-Value Test

Total Cost	Type I	Type II
Type I	0.00	0.27
Type II	0.27	0.00

Regular Test: Medians significantly different if z-value > 1.96



Annexure 3 Fields within Cost Template

Cost Template Fields	
Demographics Patient hospital identification number Gender Date of birth Type of diabetes mellitus Complications of diabetes mellitus Co-morbid conditions	Emergency room visits Date of emergency room visit Reason for emergency room visit (if available) Cost of laboratory tests, electrocardiogram and radiological procedures Total cost
Outpatient consultations Date of consultation Reason for consultation (if available) Cost of consultation	Hospitalisations Date of hospitalisation Length of stay (in days) Reason for hospitalisation (if available) Cost of laboratory tests, electrocardiogram and radiological procedures Total cost
Radiological procedures Date of procedure Type of procedure Cost of procedure	Medicines Date of dispensing Name of medicine Quantity and strength dispensed Cost of medicine Cost of dispensing
Electrocardiogram procedures Date of procedure Type of procedure Cost of procedure	Laboratory tests Date of test Type of test Cost of test