

## **Figure 6:T-Test**

### **Legend to Figure 6 Raw Data Set 1**

Label for Statistics	Corresponding in Manuscript
ASF	ASF (Asialofetuin)
A5	hST6 A5
B1	hST6 B1
G1	hST6
Dre	zST6
Gac	sST6
Tru	fST6
Gga	cST6
Rno	rST6
Ctrl	mST6 (commercial mouse enzyme)
ST3A2	hST3 A2
ST3A1	hST3 A2
ST3H6	zST3
ST2	hST6Gal2

### **T-Test: hST6 A5**

#### **Notes**

Output Created		11-JUL-2018 17:09:44
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoi t.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data	45
	File	
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.

Syntax	T-TEST GROUPS=Sample('A5' 'ASF')		
	/MISSING=ANALYSIS		
	/VARIABLES=value1		
	/CRITERIA=CI(.95).		
Resources	Processor Time		00:00:00.00
	Elapsed Time		00:00:00.03

**Group Statistics**

	Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I	A5	3	.77287	.045671	.026368
	ASF	3	.60230	.008643	.004990

**Independent Samples Test**

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SNA-I	Equal variances assumed	3.018	.157	6.356	4
	Equal variances not assumed			6.356	2.143

**Independent Samples Test**

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
					Lower
SNA-I	Equal variances assumed	.003	.170567	.026836	.096058
	Equal variances not assumed	.020	.170567	.026836	.062183

**Independent Samples Test**

		t-test for Equality of Means	
		95% Confidence Interval of the Difference	
		Upper	
SNA-I	Equal variances assumed	.245076	
	Equal variances not assumed	.278951	

**Notes**

Output Created		11-JUL-2018 17:09:57
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoi t.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	45
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Sample('1' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.01

## T-Test: hST6 B1

### Notes

Output Created	11-JUL-2018 17:10:23	
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoi t.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data	45
	File	
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Sample('B1' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.05

### Group Statistics

	Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I	B1	3	1.38367	.074086	.042774
	ASF	3	.60230	.008643	.004990

### Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SNA-I	Equal variances assumed	10.726	.031	18.144	4
	Equal variances not assumed			18.144	2.054

**Independent Samples Test**

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
					Lower
SNA-I	Equal variances assumed	.000	.781367	.043064	.661803
	Equal variances not assumed	.003	.781367	.043064	.600705

**Independent Samples Test**

		t-test for Equality of Means	
		95% Confidence Interval of the Difference	
		Upper	
SNA-I	Equal variances assumed	.900931	
	Equal variances not assumed	.962028	

**T-Test: hST6**

**Notes**

Output Created	11-JUL-2018 17:10:44	
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoit.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	45
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax	T-TEST GROUPS=Sample('G1' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).	

Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

**Group Statistics**

	Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I	G1	3	.65920	.041122	.023742
	ASF	3	.60230	.008643	.004990

**Independent Samples Test**

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SNA-I	Equal variances assumed	4.946	.090	2.345	4
	Equal variances not assumed			2.345	2.176

**Independent Samples Test**

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
					Lower
SNA-I	Equal variances assumed	.079	.056900	.024261	-.010459
	Equal variances not assumed	.133	.056900	.024261	-.039784

**Independent Samples Test**

		t-test for Equality of Means	
		95% Confidence Interval of the Difference	
		Upper	
SNA-I	Equal variances assumed	.124259	
	Equal variances not assumed	.153584	

**T-Test: zST6**

**Notes**

Output Created	11-JUL-2018 17:11:01	
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoi t.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data	45
	File	
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Sample('Dre' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

**Group Statistics**

Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I Dre	3	1.07970	.057551	.033227
ASF	3	.60230	.008643	.004990

**Independent Samples Test**

	Levene's Test for Equality of Variances		t-test for Equality of Means	
	F	Sig.	t	df
SNA-I Equal variances assumed	9.166	.039	14.208	4



Equal variances not assumed			14.208	2.090
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**Independent Samples Test**

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
Lower					
SNA-I	Equal variances assumed	.000	.477400	.033600	.384112
	Equal variances not assumed	.004	.477400	.033600	.338647

**Independent Samples Test**

		t-test for Equality of Means	
		95% Confidence Interval of the Difference	
		Upper	
SNA-I	Equal variances assumed	.570688	
	Equal variances not assumed	.616153	

**T-Test: sST6**

**Notes**

Output Created	11-JUL-2018 17:11:19	
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoit.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data	45
	File	
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.

Cases Used		Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Sample('Gac' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.03

### Group Statistics

Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I Gac	3	.81133	.140832	.081310
ASF	3	.60230	.008643	.004990

### Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SNA-I	Equal variances assumed	13.858	.020	2.566	4
	Equal variances not assumed			2.566	2.015

### Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
					Lower
SNA-I	Equal variances assumed	.062	.209033	.081463	-.017143
	Equal variances not assumed	.123	.209033	.081463	-.138973

### Independent Samples Test

		t-test for Equality of Means
		95% Confidence Interval of the Difference

		Upper
SNA-I	Equal variances assumed	.435210
	Equal variances not assumed	.557039

## T-Test: fST6

### Notes

Output Created	11-JUL-2018 17:11:41	
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoi t.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data	45
	File	
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax	T-TEST GROUPS=Sample('Tru' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).	
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.02

### Group Statistics

	Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I	Tru	3	1.18953	.107552	.062095
	ASF	3	.60230	.008643	.004990

### Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SNA-I	Equal variances assumed	8.849	.041	9.427	4
	Equal variances not assumed			9.427	2.026

#### Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
Lower					
SNA-I	Equal variances assumed	.001	.587233	.062295	.414274
	Equal variances not assumed	.011	.587233	.062295	.322447

#### Independent Samples Test

		t-test for Equality of Means	
		95% Confidence Interval of the Difference	
		Upper	
SNA-I	Equal variances assumed	.760193	
	Equal variances not assumed	.852020	

### T-Test: cST6

#### Notes

Output Created	11-JUL-2018 17:12:16	
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoi t.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data	45
	File	
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.

Cases Used		Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Sample('Gga' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

### Group Statistics

	Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I	Gga	3	2.55470	.110604	.063857
	ASF	3	.60230	.008643	.004990

### Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SNA-I	Equal variances assumed	6.556	.063	30.481	4
	Equal variances not assumed			30.481	2.024

### Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
					Lower
SNA-I	Equal variances assumed	.000	1.952400	.064052	1.774563
	Equal variances not assumed	.001	1.952400	.064052	1.679969

### Independent Samples Test

	t-test for Equality of Means
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		95% Confidence Interval of the Difference
		Upper
SNA-I	Equal variances assumed	2.130237
	Equal variances not assumed	2.224831

## T-Test: rST6

### Notes

Output Created	11-JUL-2018 17:12:30	
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoi t.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	45
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax	T-TEST GROUPS=Sample('Rno' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).	
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.03

### Group Statistics

	Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I	Rno	3	2.19693	.126660	.073127

ASF	3	.60230	.008643	.004990
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**Independent Samples Test**

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SNA-I	Equal variances assumed	4.760	.095	21.756	4
	Equal variances not assumed			21.756	2.019

**Independent Samples Test**

		t-test for Equality of Means		
		Sig. (2-tailed)	Mean Difference	Std. Error Difference
SNA-I	Equal variances assumed	.000	1.594633	.073297
	Equal variances not assumed	.002	1.594633	.073297

**Independent Samples Test**

		t-test for Equality of Means	
		95% Confidence Interval of the Difference	
SNA-I	Equal variances assumed	Upper	
	Equal variances not assumed	1.907233	

**T-Test: mST6 (commercial control)**

**Notes**

Output Created	11-JUL-2018 17:12:47	
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoit.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>

	N of Rows in Working Data	45
	File	
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Sample('Ctrl' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.02

#### Group Statistics

	Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I	Ctrl	3	2.64073	.153787	.088789
	ASF	3	.60230	.008643	.004990

#### Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SNA-I	Equal variances assumed	6.047	.070	22.922	4
	Equal variances not assumed			22.922	2.013

#### Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
					Lower
SNA-I	Equal variances assumed	.000	2.038433	.088929	1.791526
	Equal variances not assumed	.002	2.038433	.088929	1.658095



### Independent Samples Test

		t-test for Equality of Means
		95% Confidence Interval of the Difference
		Upper
SNA-I	Equal variances assumed	2.285340
	Equal variances not assumed	2.418772

### T-Test: hST3 A2

#### Notes

Output Created	11-JUL-2018 17:17:16	
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoit.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	45
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Sample('ST3A2' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

#### Group Statistics

	Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I	ST3A2	3	.70623	.065623	.037887
	ASF	3	.60230	.008643	.004990

**Independent Samples Test**

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SNA-I	Equal variances assumed	8.227	.046	2.720	4
	Equal variances not assumed			2.720	2.069

**Independent Samples Test**

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
					Lower
SNA-I	Equal variances assumed	.053	.103933	.038215	-.002167
	Equal variances not assumed	.109	.103933	.038215	-.055320

**Independent Samples Test**

		t-test for Equality of Means	
		95% Confidence Interval of the Difference	
		Upper	
SNA-I	Equal variances assumed	.210034	
	Equal variances not assumed	.263187	

**T-Test: hST3 A1**

**Notes**

Output Created	11-JUL-2018 17:19:54	
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoi t.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>

	N of Rows in Working Data	45
	File	
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Sample('ST3A1' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.02

#### Group Statistics

Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I ST3A1	3	.80123	.033994	.019626
ASF	3	.60230	.008643	.004990

#### Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SNA-I	Equal variances assumed	7.959	.048	9.823	4
	Equal variances not assumed			9.823	2.258

#### Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
					Lower
SNA-I	Equal variances assumed	.001	.198933	.020251	.142708
	Equal variances not assumed	.007	.198933	.020251	.120666

**Independent Samples Test**

		t-test for Equality of Means
		95% Confidence Interval of the Difference
		Upper
SNA-I	Equal variances assumed	.255159
	Equal variances not assumed	.277201

**T-Test: zST3**

**Notes**

Output Created	11-JUL-2018 17:20:13	
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoit.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	45
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax	<pre>T-TEST GROUPS=Sample('ST3H6' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).</pre>	
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.03

**Group Statistics**

Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I ST3H6	3	.83217	.074289	.042891
ASF	3	.60230	.008643	.004990

**Independent Samples Test**

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SNA-I	Equal variances assumed	5.627	.077	5.323	4
	Equal variances not assumed			5.323	2.054

**Independent Samples Test**

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
					Lower
SNA-I	Equal variances assumed	.006	.229867	.043180	.109979
	Equal variances not assumed	.032	.229867	.043180	.048691

**Independent Samples Test**

		t-test for Equality of Means	
		95% Confidence Interval of the Difference	
		Upper	
SNA-I	Equal variances assumed	.349755	
	Equal variances not assumed	.411042	

**T-Test: hST6Gal2**

**Notes**

Output Created	11-JUL-2018 17:20:50
Comments	

Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoi t.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data	45
	File	
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Sample('ST2' 'ASF') /MISSING=ANALYSIS /VARIABLES=value1 /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.03

#### Group Statistics

	Sample	N	Mean	Std. Deviation	Std. Error Mean
SNA-I	ST2	3	.58790	.053927	.031135
	ASF	3	.60230	.008643	.004990

#### Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
SNA-I	Equal variances assumed	7.825	.049	-.457	4
	Equal variances not assumed			-.457	2.103

#### Independent Samples Test

	t-test for Equality of Means
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		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference
					Lower
SNA-I	Equal variances assumed	.672	-.014400	.031532	-.101948
	Equal variances not assumed	.691	-.014400	.031532	-.143917

#### Independent Samples Test

		t-test for Equality of Means
		95% Confidence Interval of the Difference
		Upper
SNA-I	Equal variances assumed	.073148
	Equal variances not assumed	.115117

#### Notes

Output Created	11-JUL-2018 17:24:09	
Comments		
Input	Data	\\gweng.gmadtree.gmit.ie\STAFF\Benoi t.Houeix\Documents\ST.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	45
Syntax	NPTESTS /INDEPENDENT TEST (value1 value2) GROUP (Sample) KRUSKAL_WALLIS(COMPARE=PAIR WISE) /MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE /CRITERIA ALPHA=0.05 CILEVEL=95.	
Resources	Processor Time	00:00:00.11
	Elapsed Time	00:00:00.13

