

Creating a Journal-Ready Group Comparison Table in Microsoft Word with SAS® by Alan C. Elliott, SMU

Potential
of One

Power
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All

Creating a Journal-Ready Group Comparison Table in Microsoft Word with SAS®

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Abstract

The first table in many research journal articles is a statistical comparison of demographic traits across study groups. It may not be exciting, but it's necessary. And although SAS calculates these numbers with ease, it is a time-consuming chore to transfer these results into a journal-ready table. Introducing the time-saving deluxe %MAKETABLE SAS macro; it does the heavy work for you. It creates a Word table of up to five comparative groups reporting t-tests, chi-square, ANOVA or median test results including a p-value. You only specify a one-line macro call for each line in the table, and the macro takes it from there. The result is a tidily formatted journal-ready Word table that you can easily include in a manuscript, report, or PowerPoint presentation. For statisticians and researchers needing to summarize group comparisons in a table, this macro saves time and relieves you from the drudgery of trying to make your output neat and pretty. And after all, isn't that what we want computing to do for us?

Objective

1. Define Table Options
2. Call Macros to Create Table
3. Finalize Table in Word

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1. Define Table Options

Indicate Title, Columns, Count direction (1:Down 2: Across), Class/Group variable, and Label for each column using the following setup code:

```
%LET T1TITLE=Compare Three Groups;
%LET T1OUTCOMEVAR=GP;
%LET TABLECOLUMNS=3;
%LET TABLECOL1=A;%LET TABLELABEL1=Group A;
%LET TABLECOL2=B;%LET TABLELABEL2=Group B;
%LET TABLECOL3=C;%LET TABLELABEL3=Group C;
```

And using the following macros:

```
%T1MEANS - compares means
%T1COUNTS - compares counts
%T1MEDIANS - compares medians
%T1SEPARATOR - separator message
%WRITEWORD - create MSWord document
```

3. Finalize Word Document

2. Call Macros

```
%T1COUNTS(rowvar=GENDER,rowfmt=$8.,
rowtype=C,colvar=&T1OUTCOME,
t1data=sasdata.somedata,dohead=1);
%T1MEANS(cdat=TIME1-TIME4,gvar=&T1OUTCOME,
t1data=sasdata.somedata,dohead=0);
%T1SEPARATOR(SNAME=The next test is a MEDIAN
test);
%T1MEDIANS(cdat=AGE,gvar=&T1OUTCOME,
t1data=sasdata.somedata,dohead=0);
%SENDTOWORD;
```

Download Macro & Example at
www.statutorials.com/table1

Compare Three Groups				
	Group A	Group B	Group C	p-value
Gender				
Female	6(54.5)	16(55.2)	8(80.0)	0.353
Male	5(45.5)	13(44.8)	2(20.0)	
Total	50			
Baseline	21.91(1.66) N=10	21.91(1.66) N=10	21.91(1.66) N=10	0.381
6 Months	27.94(2.61) N=10	27.94(2.61) N=10	27.94(2.61) N=10	0.729
12 Months	31.12(3.52) N=10	31.12(3.52) N=10	31.12(3.52) N=10	0.771
24 Months	32.24(3.19) N=10	32.24(3.19) N=10	32.24(3.19) N=10	0.38
The next test is a MEDIAN test				
AGE(Median)	11(6) N=10	11(6) N=10	11(6) N=10	0.809
(Min,Max)	(8,14)	(8,14)	(8,14)	



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