

MedCalc® Table Creator

1. Load the data into MedCalc®

The screenshot shows the MedCalc software interface. The main window displays a data table titled "PRIVAT MASTER CHART FINAL". The table has columns labeled A1, K, L, M, N, O, P, Q, R, S, T, U, and BE. The data is organized into rows, with the first row (row 1) containing values for each column. The table is displayed in a grid format with alternating light and dark gray rows.

A1	K	L	M	N	O	P	Q	R	S	T	U	BE
1	99	13	100	92	100	100	94	102	100	102	110	
2	94	14	99	90	98	100	94	102	100	100	108	
3	95	15	99	78	96	100	82	99	100	98	105	
4	93	13	100	76	94	100	82	96	100	92	106	
5	98	12	100	80	98	100	82	100	100	100	108	
6	91	14	99	78	94	100	80	96	100	98	106	
7	93	15	99	84	96	100	90	97	100	112	108	
8	93	13	99	76	94	100	78	96	100	91	107	
9	93	13	100	79	94	100	80	94	100	92	109	
10	97	14	99	92	100	100	94	104	100	100	103	
11	92	14	100	92	94	100	96	95	100	100	97	
12	93	14	99	82	95	99	86	97	99	98	102	
13	93	15	99	84	96	99	86	97	99	94	106	
14	98	13	100	80	100	100	82	100	100	90	107	
15	91	12	100	90	90	100	94	92	100	100	98	
16	93	14	99	90	94	100	92	96	100	100	98	
17	93	15	99	80	92	100	84	95	100	96	96	
18	93	14	100	110	84	99	112	86	99	124	92	
19	97	13	100	96	97	100	98	97	100	112	110	

2. Summary Statistics of required Groups / Pre-Post Parameter

The screenshot shows the MedCalc software interface with two summary statistics windows open. The left window displays summary statistics for the variable "AGE" with the filter "Group='Semi'". The right window displays summary statistics for the variable "AGE" with the filter "Group='SUP'". Both windows show a table of summary statistics, including sample size, lowest value, highest value, arithmetic mean, 95% CI for the arithmetic mean, median, 95% CI for the median, variance, standard deviation, relative standard deviation, standard error of the mean, coefficient of skewness, coefficient of kurtosis, Shapiro-Wilk test, and for Normal distribution. The results for the 'Semi' group show a reject Normality (P=0.0374), while the results for the 'SUP' group show an accept Normality (P=0.2840).

Variable	AGE
Filter	Group="Semi"
Sample size	80
Lowest value	19.0000
Highest value	54.0000
Arithmetic mean	36.2125
95% CI for the Arithmetic mean	34.1915 to 38.2335
Median	36.0000
95% CI for the median	33.0000 to 40.0000
Variance	82.4733
Standard deviation	9.0815
Relative standard deviation	0.2508 (25.08%)
Standard error of the mean	1.0153
Coefficient of Skewness	-0.1495 (P=0.5652)
Coefficient of Kurtosis	-0.8662 (P=0.0116)
Shapiro-Wilk test	W=0.9671
for Normal distribution	reject Normality (P=0.0374)

Percentiles		95% Confidence interval
25	30.0000	26.0000 to 32.0000
75	44.0000	42.0000 to 45.0000

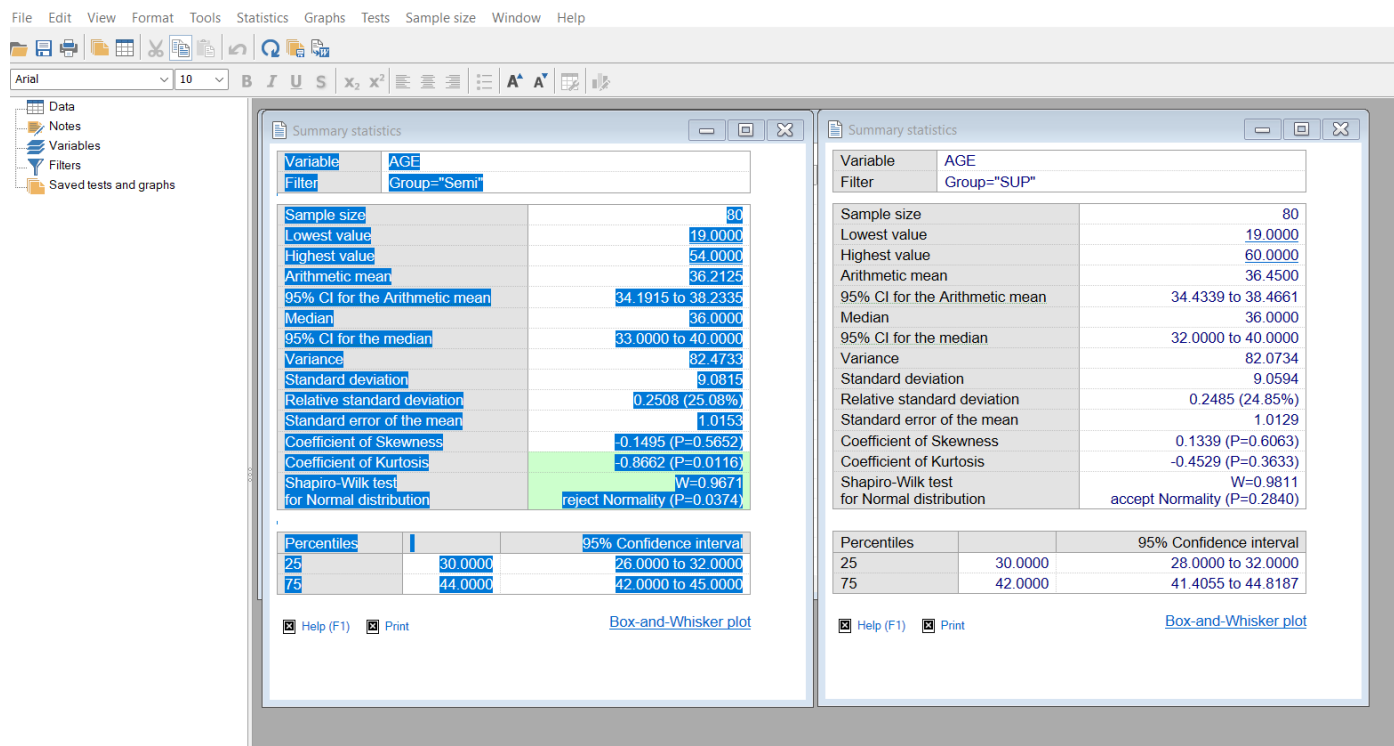
Help (F1) Print Box-and-Whisker plot

Variable	AGE
Filter	Group="SUP"
Sample size	80
Lowest value	19.0000
Highest value	60.0000
Arithmetic mean	36.4500
95% CI for the Arithmetic mean	34.4339 to 38.4661
Median	36.0000
95% CI for the median	32.0000 to 40.0000
Variance	82.0734
Standard deviation	9.0594
Relative standard deviation	0.2485 (24.85%)
Standard error of the mean	1.0129
Coefficient of Skewness	0.1339 (P=0.6063)
Coefficient of Kurtosis	-0.4529 (P=0.3633)
Shapiro-Wilk test	W=0.9811
for Normal distribution	accept Normality (P=0.2840)

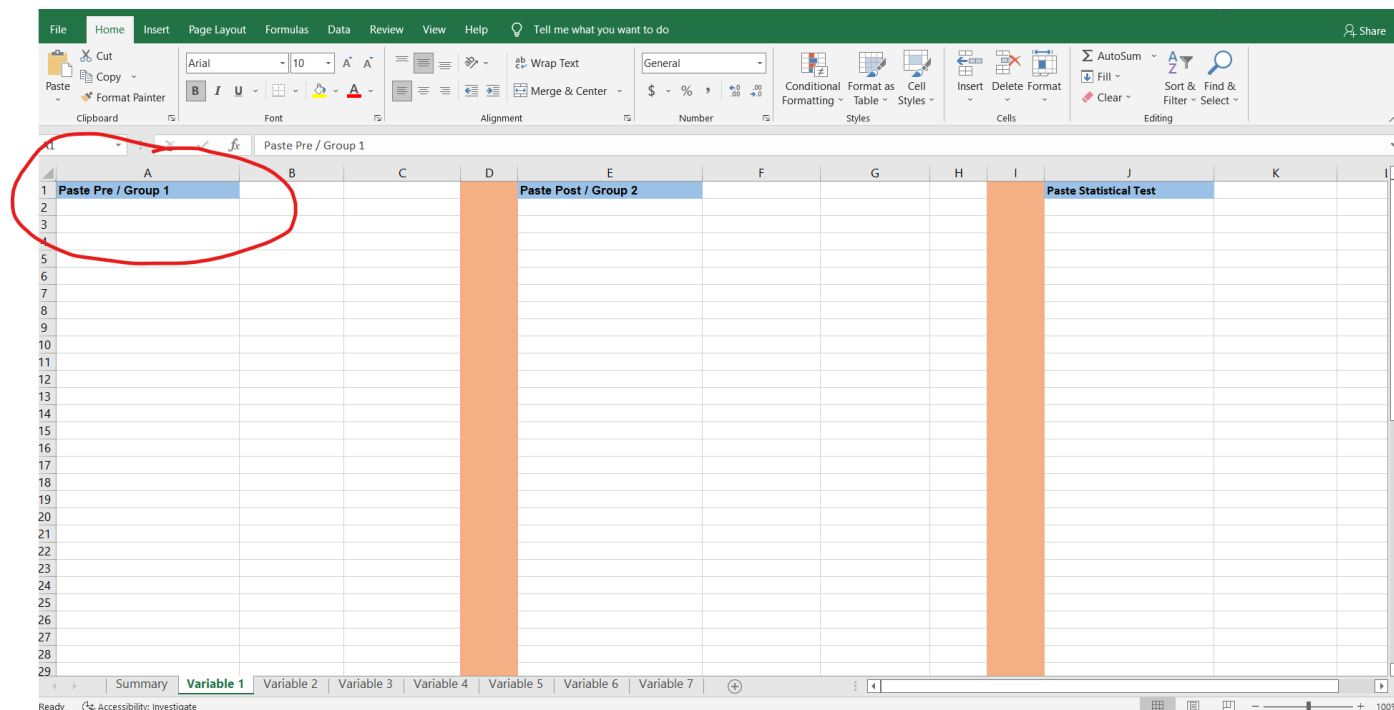
Percentiles		95% Confidence interval
25	30.0000	28.0000 to 32.0000
75	42.0000	41.4055 to 44.8187

Help (F1) Print Box-and-Whisker plot

3. Copy the table in its entirety (from variable to last row) as described in the picture below



4. Paste the copied item to Cell A1 in sheet Variable 1 as shown in the picture below



5. You will get something like this as described below

The screenshot shows an Excel spreadsheet with the following data and calculations:

	A	B	C	D	E	F	G	H	I	J	K
1	Variable	AGE			Paste Post / Group 2					Paste Statistical Test	
2	Filter	Group="Semi"									
3											
4	Sample size	80									
5	Lowest value	19									
6	Highest value	54									
7	Arithmetic mean	36.2125									
8	95% CI for the Arithmetic mean	34.1915 to 38.2335									
9	Median	36									
10	95% CI for the median	33.0000 to 40.0000									
11	Variance	82.4733									
12	Standard deviation	9.0815									
13	Relative standard deviation	0.2508 (25.08%)									
14	Standard error of the mean	1.0153									
15	Coefficient of Skewness	-0.1495 (P=0.5652)									
16	Coefficient of Kurtosis	-0.8662 (P=0.0116)									
17	Shapiro-Wilk test	W=0.9671									
18	for Normal distribution	reject Normality (P=0.0374)									
19											
20	Percentiles		95% Confidence interval								
21	25	30	26.0000 to 32.0000								
22	75	44	42.0000 to 45.0000								
23											
24											

The bottom status bar shows: Ready, Accessibility: Investigate, Average: 40.98188333, Count: 42, Sum: 491.7826.

6. Similarly do for the other summary statistics

The screenshot displays two identical data analysis templates in Microsoft Excel, side-by-side. The left template is for 'Variable 1' and the right is for 'Variable 2'. Both templates calculate various statistical measures like sample size, mean, standard deviation, and confidence intervals. The right template includes a 'Paste Statistical Test' section with results for a Shapiro-Wilk test, indicating that the data for Variable 2 is not normally distributed (P=0.0374).

Variable	AGE	Group
Filter	Group="Semi"	
Sample size	80	
Lowest value	19	
Highest value	54	
Arithmetic mean	36.2125	
95% CI for the Arithmetic mean	34.1915 to 38.2335	
Median	36	
95% CI for the median	33.0000 to 40.0000	
Variance	82.4733	
Standard deviation	9.0815	
Relative standard deviation	0.2508 (25.08%)	
Standard error of the mean	1.0153	
Coefficient of Skewness	-0.1495 (P=0.5652)	
Coefficient of Kurtosis	-0.8662 (P=0.0116)	
Shapiro-Wilk test	W=0.9671	
for Normal distribution	reject Normality (P=0.0374)	
Percentiles		95% Confidence interval
25	30	26.0000 to 32.0000
75	44	42.0000 to 45.0000

Variable	AGE	Group
Filter	Group="SUP"	
Sample size	80	
Lowest value	19	
Highest value	60	
Arithmetic mean	36.45	
95% CI for the Arithmetic mean	34.4339 to 38.4661	
Median	36	
95% CI for the median	32.0000 to 40.0000	
Variance	82.0734	
Standard deviation	9.0594	
Relative standard deviation	0.2485 (24.85%)	
Standard error of the mean	1.0129	
Coefficient of Skewness	0.1339 (P=0.6063)	
Coefficient of Kurtosis	-0.4529 (P=0.3633)	
Shapiro-Wilk test	W=0.9811	
for Normal distribution	accept Normality (P=0.2840)	
Percentiles		95% Confidence interval
25	30	28.0000 to 32.0000
75	42	41.4055 to 44.8187

7. Perform appropriate statistical test

The screenshot shows the SPSS 'Mann-Whitney test (independent samples)' dialog box and the resulting output window. The dialog box shows Sample 1 with Variable AGE and Filter Group='Semi', and Sample 2 with Variable AGE and Filter Group='SUP'. The output window displays the following statistics:

	Sample 1	Sample 2
Sample size	80	80
Lowest value	19.0000	19.0000
Highest value	54.0000	60.0000
Median	36.0000	36.0000
95% CI for the median	33.0000 to 40.0000	32.0000 to 40.0000
Interquartile range	30.0000 to 44.0000	30.0000 to 42.0000
Hodges-Lehmann median difference		0.0000
95% Confidence interval		-3.0000 to 3.0000

The Mann-Whitney test results are as follows:

Average rank of first group	80.8938
Average rank of second group	80.1063
Mann-Whitney U	3168.50
Test statistic Z (corrected for ties)	0.108
Two-tailed probability	P = 0.9142

The data comparison graph shows the distribution of the variable AGE for the two groups, with the 'Semi' group (Sample 1) generally having lower values than the 'SUP' group (Sample 2).

8. Paste it into the Cell J1 in Sheet Variable 1 as shown below

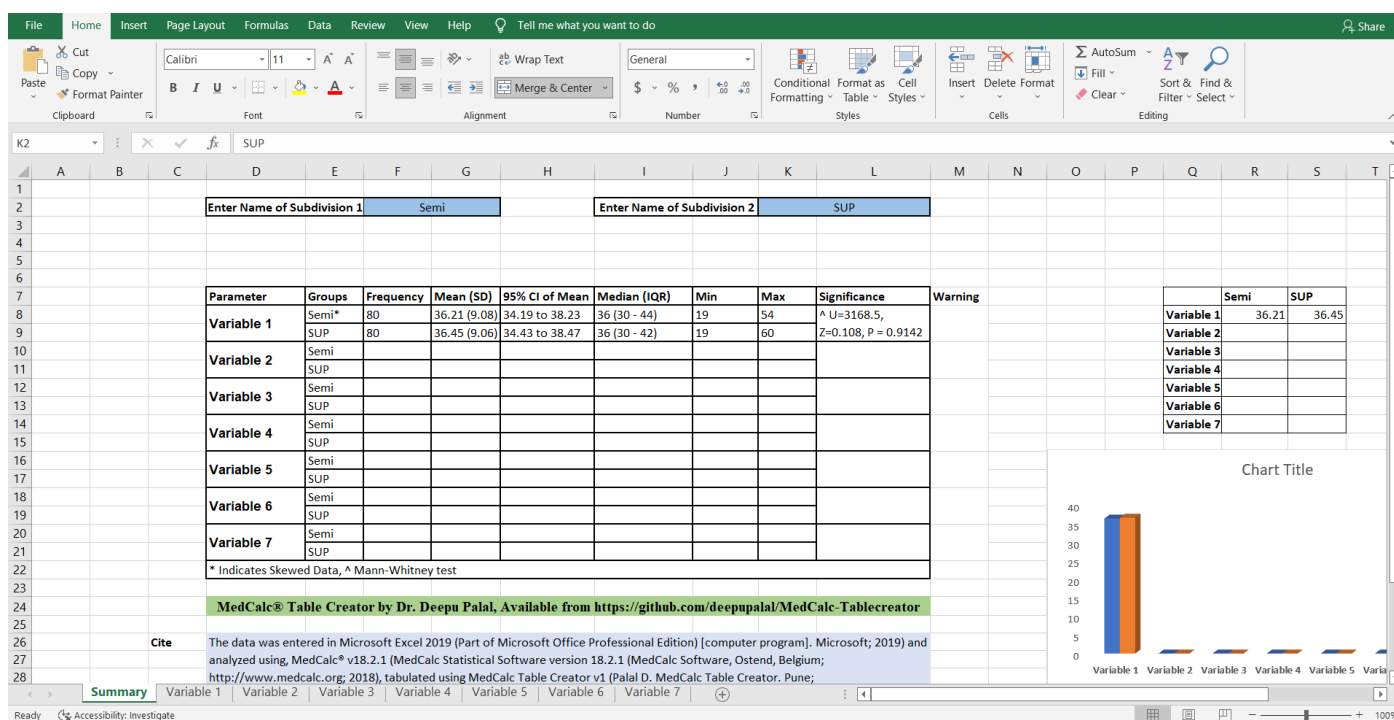
The screenshot shows an Excel spreadsheet with two columns of statistical results. The first column (A) represents Variable 1 (AGE, Group='Semi') and the second column (E) represents Variable 2 (AGE, Group='SUP'). The results are pasted into cells J1 and J2 of Sheet Variable 1.

Variable	AGE	Filter	Group
Sample size	80		
Lowest value	19		
Highest value	54		
Arithmetic mean	36.2125		
95% CI for the Arithmetic mean	34.1915 to 38.2335		
Median	36		
95% CI for the median	33.0000 to 40.0000		
Variance	82.4733		
Standard deviation	9.0815		
Relative standard deviation	0.2508 (25.08%)		
Standard error of the mean	1.0153		
Coefficient of Skewness	-0.1495 (P=0.5652)		
Coefficient of Kurtosis	-0.8662 (P=0.0116)		
Shapiro-Wilk test	W=0.9671		
for Normal distribution	reject Normality (P=0.0374)		
Percentiles		95% Confidence interval	
25	30	26.0000 to 32.0000	

Variable	AGE	Filter	Group
Sample size	80		
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95% CI for the median	32.0000 to 40.0000		
Variance	82.0734		
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Shapiro-Wilk test	W=0.9811		
for Normal distribution	accept Normality (P=0.2840)		
Percentiles		95% Confidence interval	
25	30	28.0000 to 32.0000	

9. Perform similar steps for other variables also pasting to sheets variable 2, variable 3 and so on

10. You can View and copy the final table from the Summary sheet



11. The Statistical test used and * mark for skewed data will be mentioned in the table automatically by the programme.

12. The method of analysis as well as the tests performed along with the references for MedCalc® and MedCalc® Table Creator is also given below the table.

Share and support by citing the software

MedCalc Table Creator v1 (Palal D. MedCalc Table Creator. Pune; <https://github.com/deepupalal/MedCalc-Tablecreator>; 2022)