

# Taller Iniciación Estadística Aplicada a la Investigación

## Uso de SPSS

Hugo J. Bello

2024/04

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- 2 Importar datos desde un excel
- 3 Estadística descriptiva
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- 7 Regresión y análisis multivariante
- 8 Correlación

ejemplo\_medimento2.xlsx - LibreOffice Calc

File Edit View Insert Format Styles Sheet Data Tools Window Help

Arial 10 pt B I U A -

D2 f. Σ = 1

	A	B	C	D	E	F	G
	Paciente	Sexo	Edad	Grupo	Días Ingreso	Resultado Cuestionario	Marcadores Sangre
1							
2	1H		42		1	4.15	1.09
3	2M		48		1	5.48	4.41
4	3M		20		1	5.82	2.63
5	4M		27		1	5.23	0.58
6	5M		36		1	2.05	1.76
7	6H		47		1	9.09	1.5
8	7M		44		1	2.92	1.3
9	8M		37		1	5.6	1.23
10	9H		45		1	6.1	2.94
11	10H		46		1	7.38	2.87
12	11H		39		1	6.66	4.27
13	12M		32		1	7.23	0.39
14	13M		31		1	10.37	0.69
15	14H		49		1	7.61	0.39
16	15M		51		1	8.49	0.44
17	16H		45		1	7.33	1.46
18	17H		42		1	6.21	0.53
19	18M		34		1	2.32	0.81
20	19H		47		1	5.81	0.41
21	20H		46		1	8.32	1.13
22	21H		41		1	4.87	2.65
23	22M		46		1	6.65	0.09
24	23H		30		1	0.93	2.05
25	24H		24		1	6.93	0.57
26	25M		42		1	10.4	3.13
27	26H		23		1	6.34	0.42
28	27M		30		1	4.53	3.08
29	28M		40		1	5.94	2.18
30	29H		32		1	5.23	1.11
31	30H		32		1	11.41	0.48
32	31H		51		1	4.35	0.51

ejemplo\_medimento2 Sheet2

Find Find All Formatted Display Match Case

Sheet 1 of 2 PageStyle: ejemplo\_medimento2 English (USA) Average: 1; Sum: 1 100%

Figure: Importar datos desde excel

Welcome to IBM SPSS Statistics

## IBM SPSS Statistics

**New Files:**

- New Dataset
- New Database Query...

**Restore Points:**

Restore Point	Data Editor	Output
Auto-Recovery 2 minutes ago	Untitled2*	Output1*
Auto-Recovery 12 minutes ago	Untitled2*	Output1*
Auto-Recovery 22 minutes ago	Untitled2*	Output1*

Restore Points Recent Files Sample Files

**What's New:**

**ANOVA**

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1622.989	2	811.495	165.212	.000
Within Groups	2313.477	473	4.912		
Total	3936.466	475			

**ANOVA Effect Sizes<sup>a</sup>**

	Eta-squared	95% Confidence Interval	
		Lower	Upper
Epsilon-squared	.410	.344	.466
Omega-squared fixed-effect	.409	.344	.465
Omega-squared Random-effects	.357	.267	.503

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model.

**Effect size estimates and confidence intervals for T-TEST and ONEWAY procedures, including Cohen's, Hedges', and Glass' measures for t-tests, and eta-squared and more in one-way ANOVA.**

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☐ Don't show this dialog in the future

Open Close

Figure: Importar datos desde excel

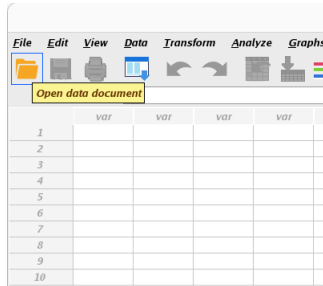


Figure: Importar datos desde excel

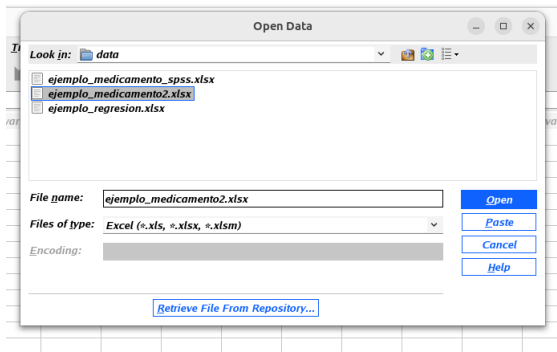


Figure: Importar datos desde excel

Read Excel File

C:\users\goku\Documents\uva-research\docencia\clases\_curso\_bioestadistica\_investigacion\_hospital\data\ejemplo\_medimento2.xlsx

Worksheet: ejemplo\_medimento2 [A1:G121]

Range:

☒ Read variable names from first row of data

☒ Percentage of values that determine data type: 95

☒ Ignore hidden rows and columns

☐ Remove leading spaces from string values

☐ Remove trailing spaces from string values

Preview

	Pacie...	Sexo	Edad	Grupo	DiasI...	Result...	Marca...
1	1	H	42	1	19	4.15	1.09
2	2	M	48	1	29	5.48	4.41
3	3	M	20	1	24	5.82	2.63
4	4	M	27	1	26	5.23	0.58
5	5	M	36	1	28	2.05	1.76
6	6	H	47	1	25	9.09	1.50
7	7	M	44	1	25	2.92	1.30

Final data type is based on all data and can be different from the preview, which is based on the first 200 data rows. The preview displays only the first 500 columns.

OK Paste Reset Cancel Help

Figure: Importar datos desde excel

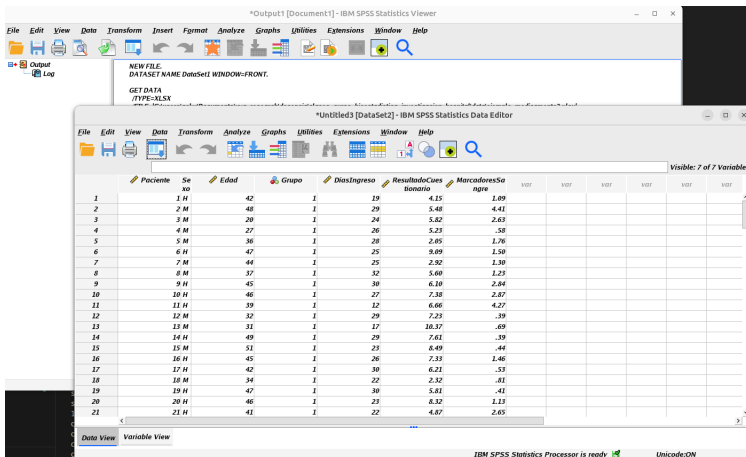


Figure: Importar datos desde excel



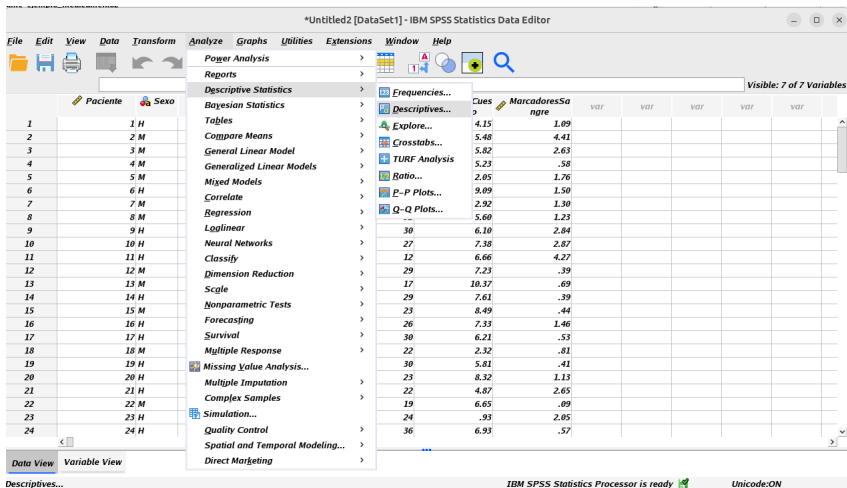


Figure: Estadística descriptiva

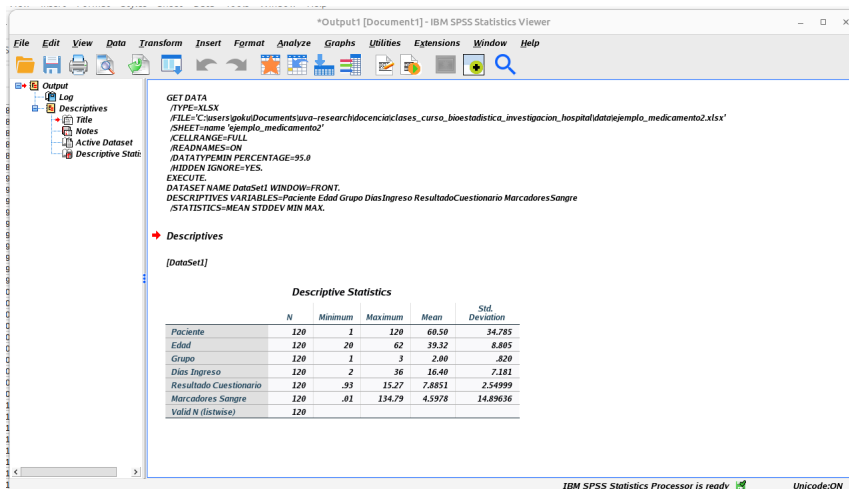


Figure: Estadística descriptiva

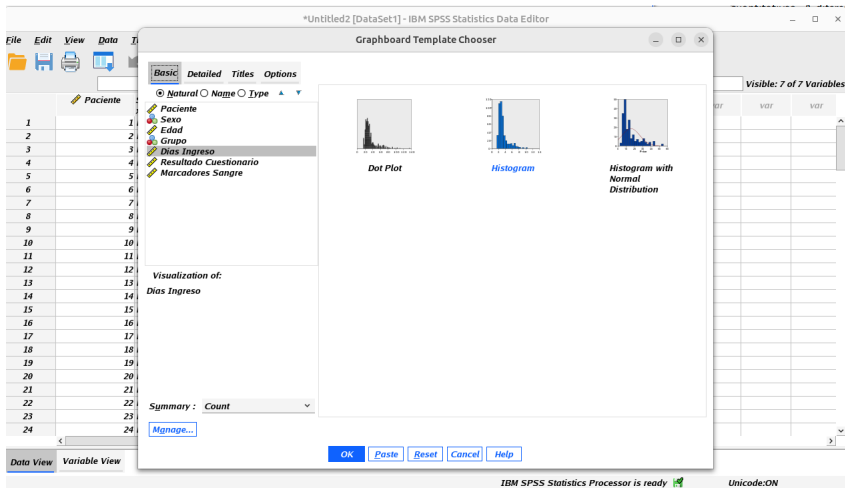


Figure: Gráficas: Histograma

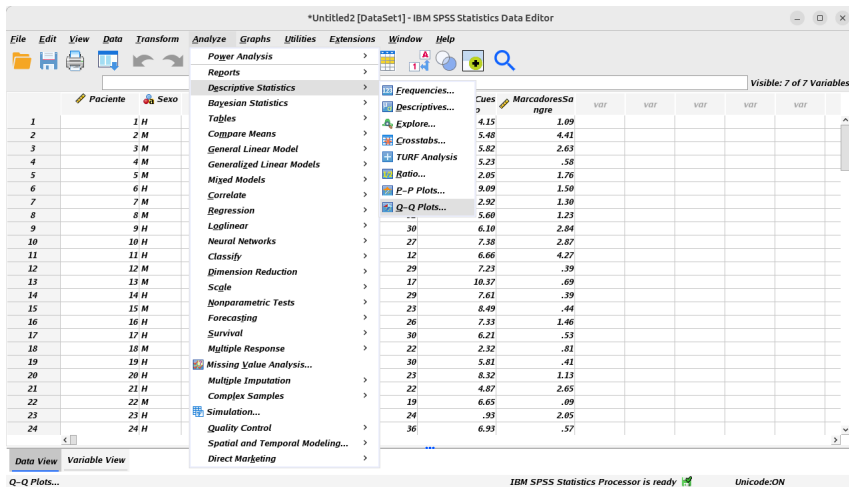


Figure: Gráficas: QQplot

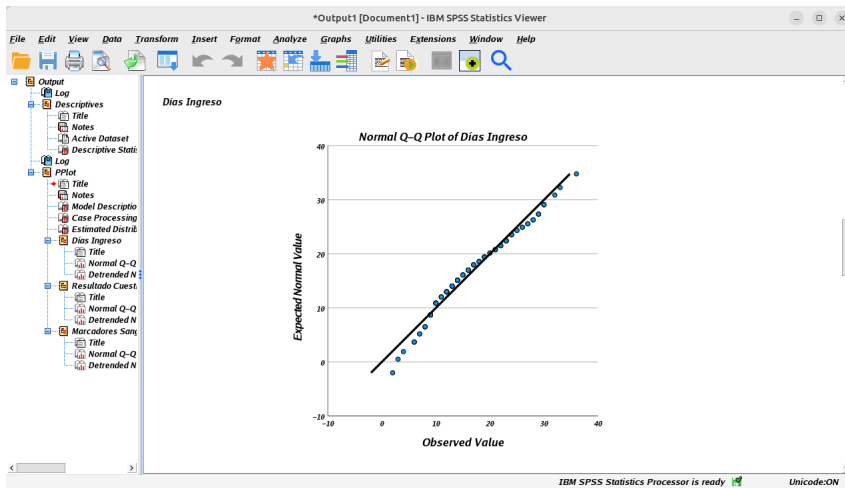


Figure: Gráficas: QQplot

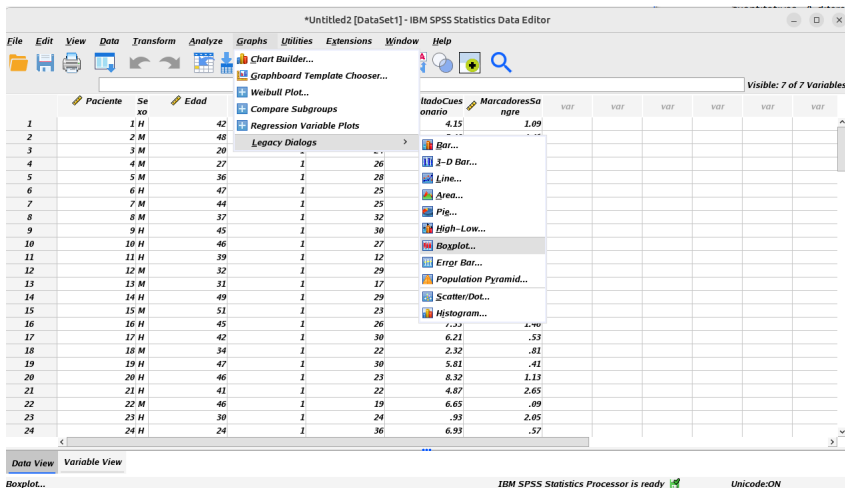


Figure: Gráficas: Boxplot

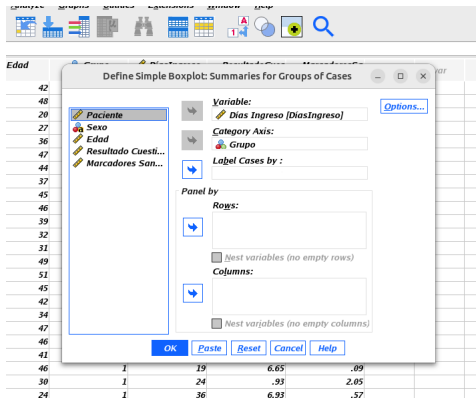


Figure: Gráficas: Boxplot

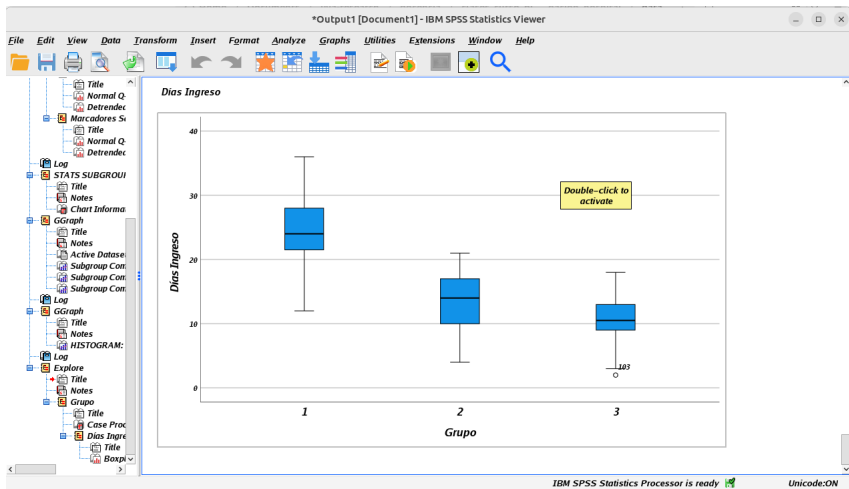


Figure: Gráficas: Boxplot



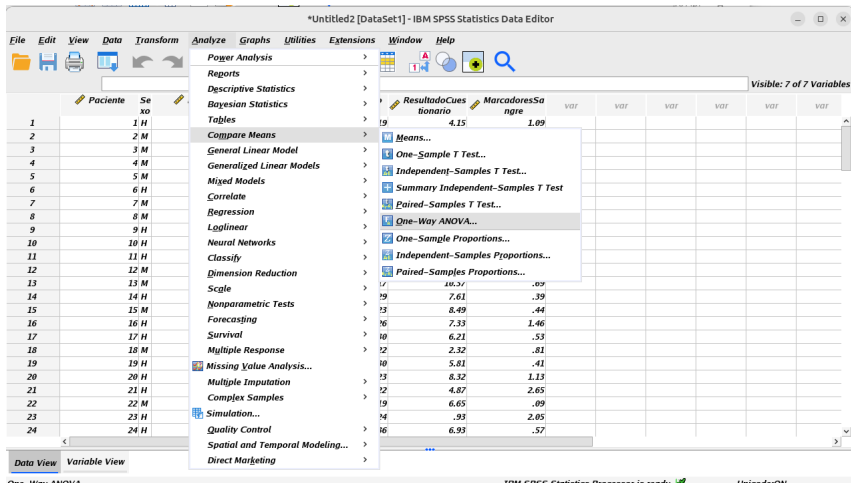


Figure: Test de Anova para comparación de muestras

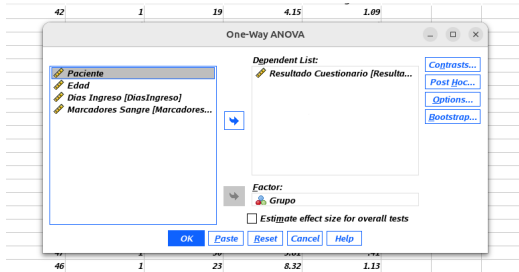


Figure: Test de Anova para comparación de muestras

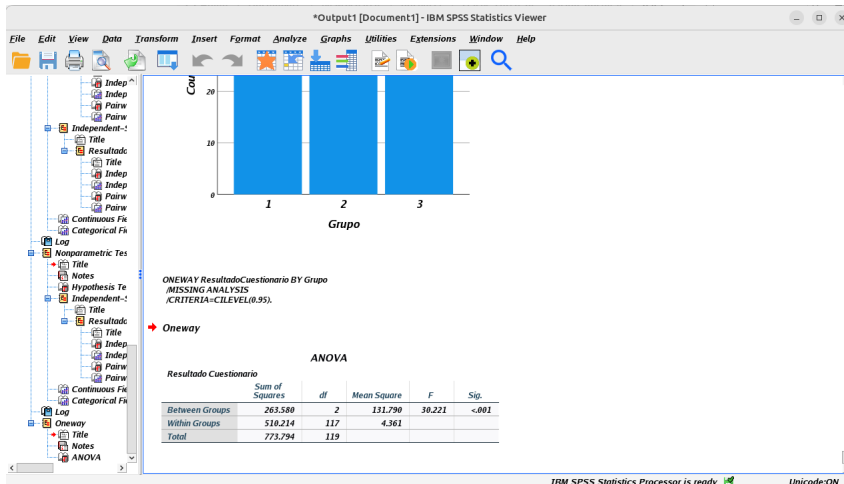


Figure: Test de Anova para comparación de muestras

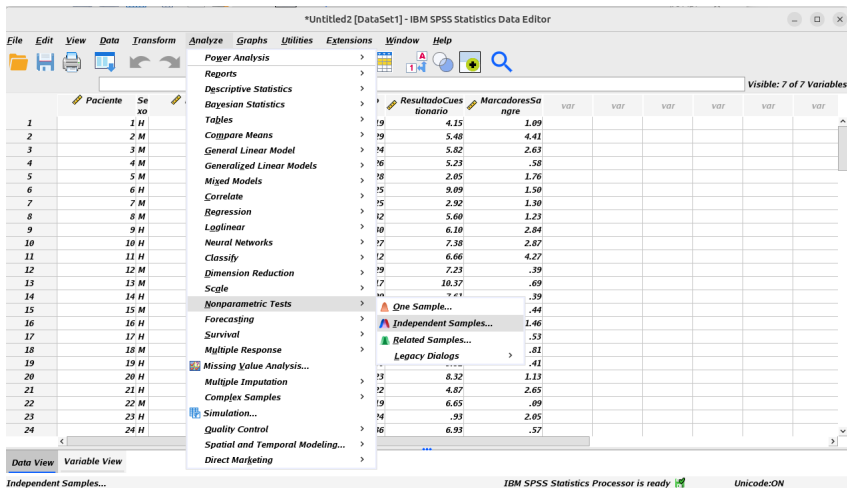


Figure: Tests no paramétricos comparación de muestras

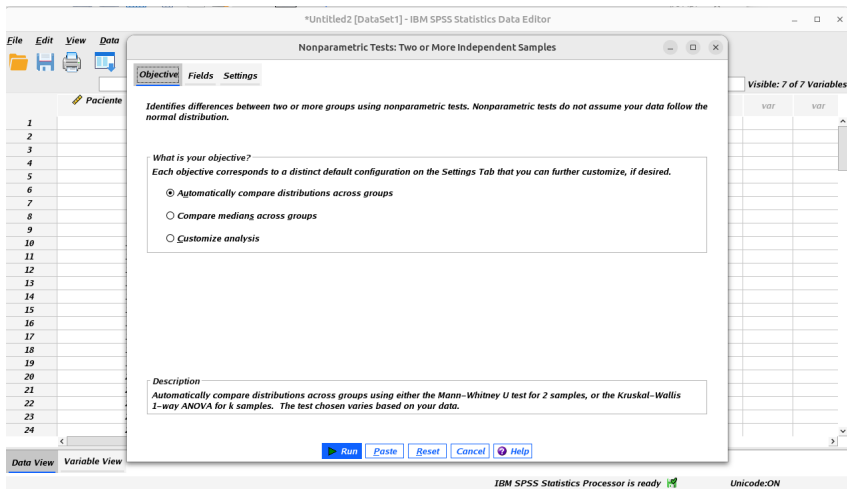


Figure: Tests no paramétricos comparación de muestras

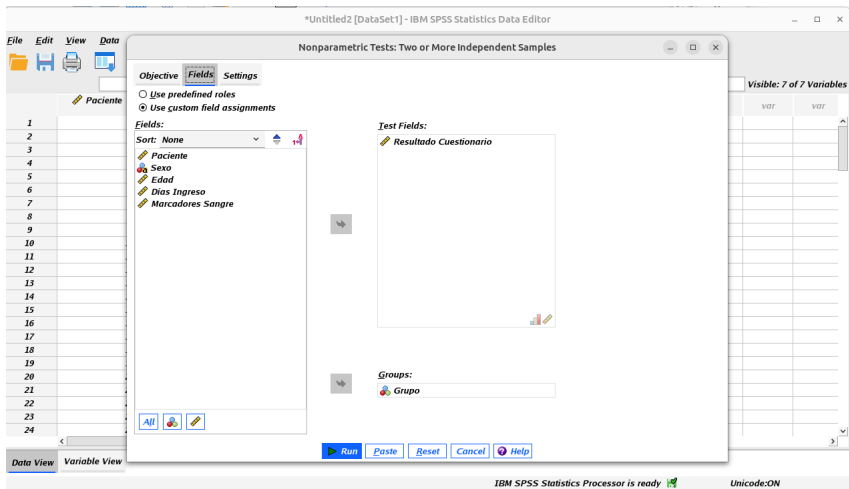


Figure: Tests no paramétricos comparación de muestras

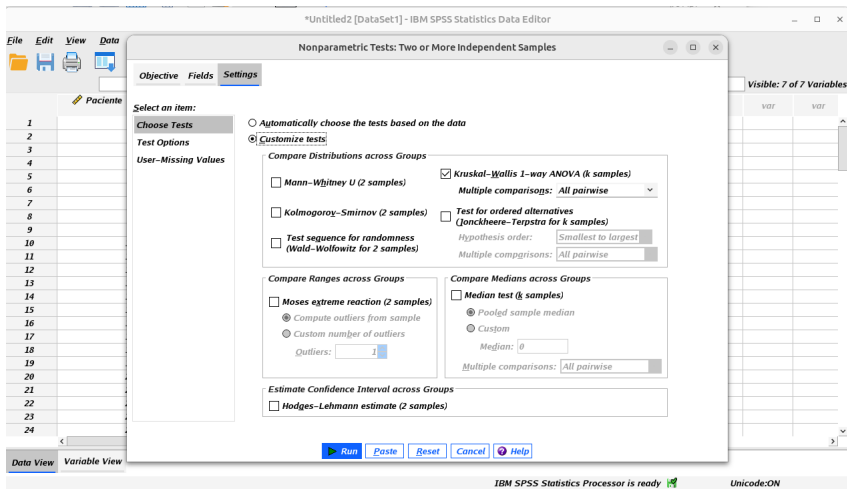


Figure: Tests no paramétricos comparación de muestras

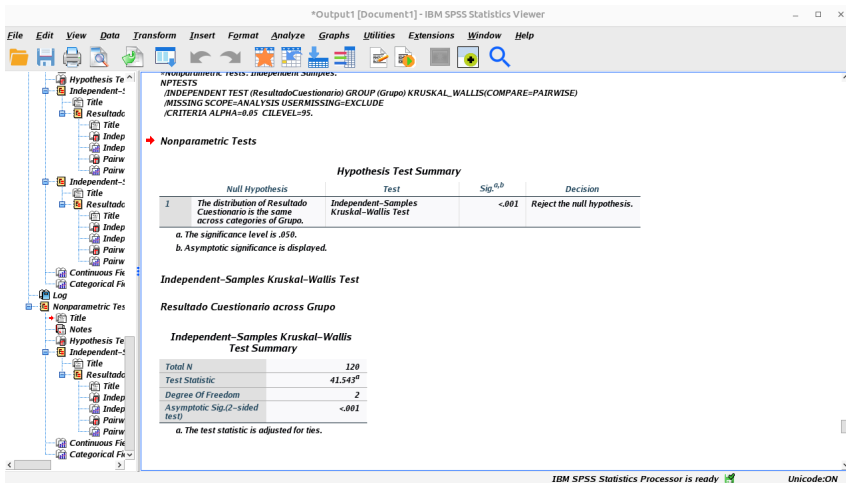


Figure: Tests no paramétricos comparación de muestras



\*Untitled4 [DataSet2] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Graphs Utilities Extensions Window Help

Visible: 4 of 4 Variables

	Paciente	Pesoalnac	Longitudalnacer	CiataosSaños	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR
1	1	2.49	36.20	101.97									
2	2	2.57	29.87	100.22									
3	3	2.55	26.07	103.98									
4	4	2.52	35.35	101.13									
5	5	1.89	42.43	97.94									
6	6	2.74	34.54	109.26									
7	7	2.82	32.20	101.21									
8	8	1.84	40.28	101.61									
9	9	2.13	31.86	102.95									
10	10	2.02	32.48	99.02									
11	11	2.60	33.88	105.16									
12	12	2.57	36.42	103.84									
13	13	2.85	37.02	104.11									
14	14	2.80	34.55	106.34									
15	15	1.99	37.04	102.68									
16	16	2.99	40.16	107.36									
17	17	2.59	28.57	102.92									
18	18	2.49	30.64	102.06									
19	19	2.87	33.06	103.83									
20	20	2.70	33.71	102.61									
21	21	1.56	33.94	99.26									
22	22	2.36	34.65	102.62									
23	23	2.69	36.17	102.82									
24	24	1.86	38.67	101.91									

Data View Variable View

IBM SPSS Statistics Processor is ready Unicodo:ON

Figure: Utilizamos otro dataset

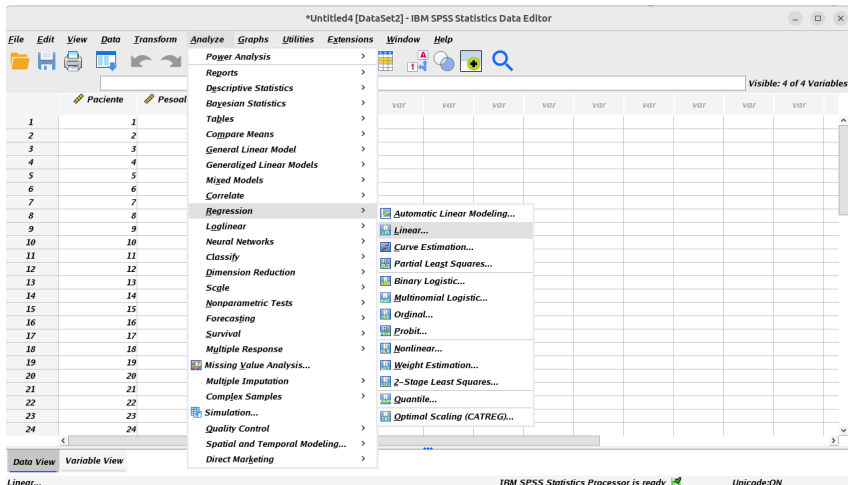


Figure: Cálculo del modelo de regresión

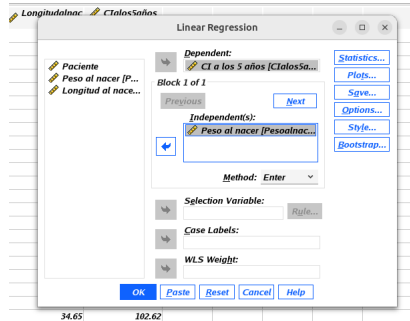


Figure: Cálculo del modelo de regresión

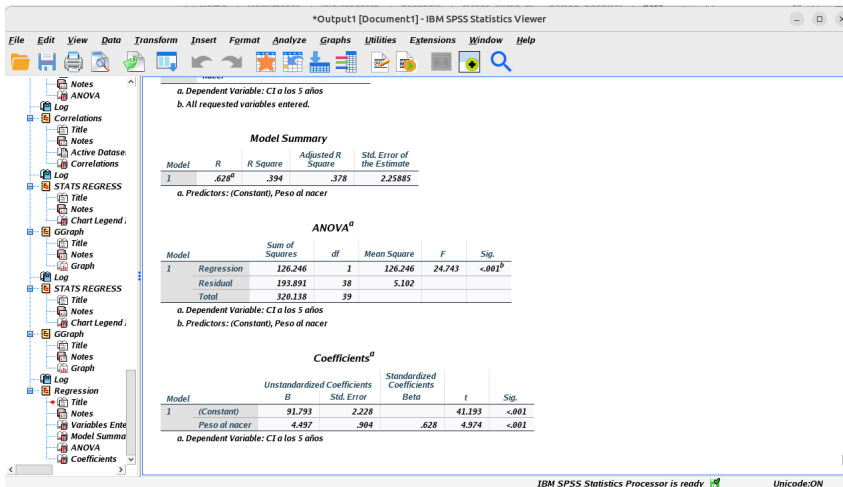


Figure: Cálculo del modelo de regresión

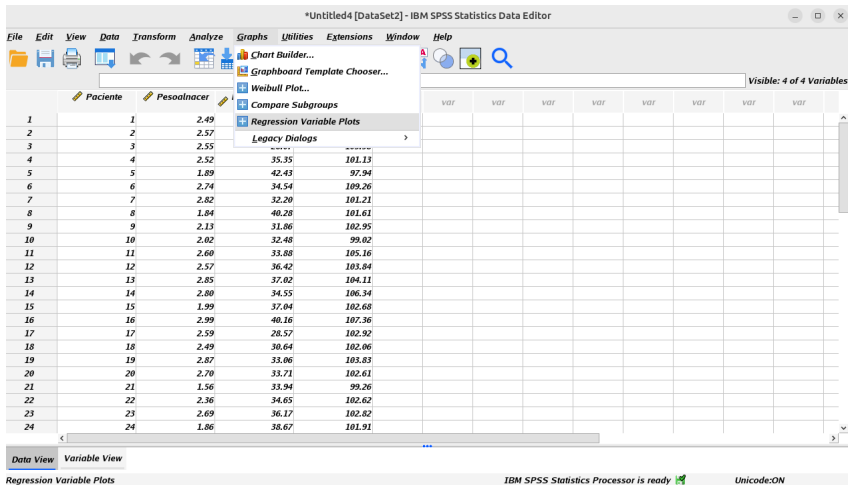


Figure: Gráfica regresión

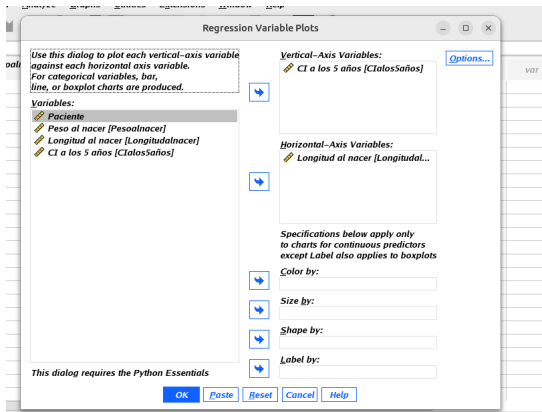


Figure: Gráfica regresión

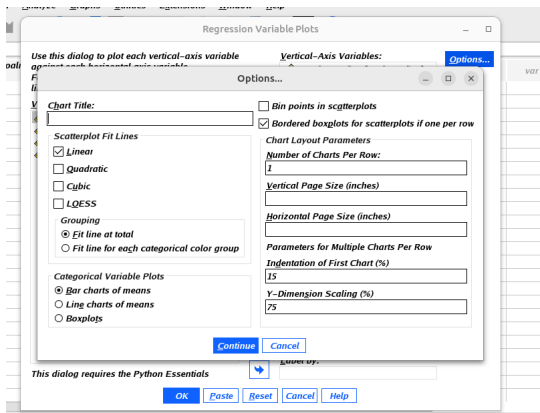


Figure: Gráfica regresión

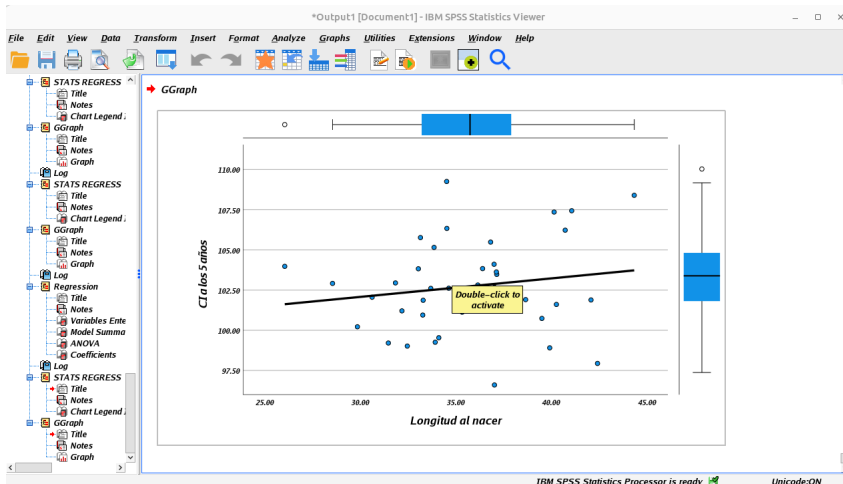


Figure: Gráfica regresión



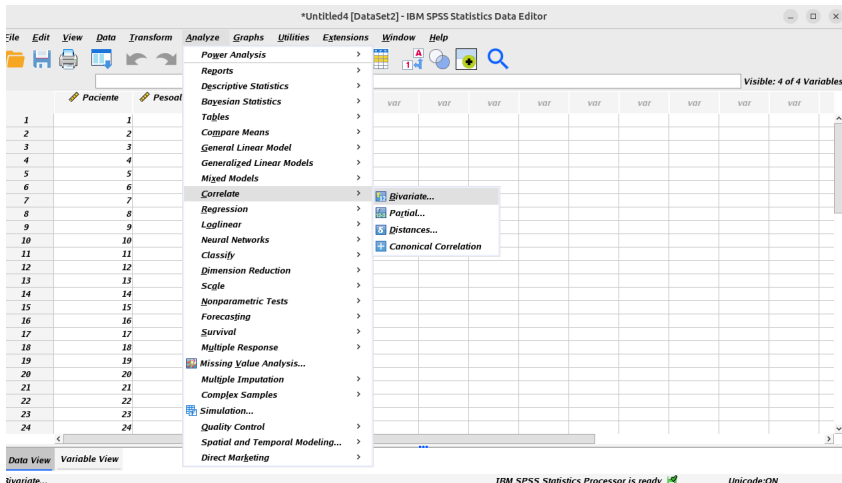


Figure: Correlación de Pearson

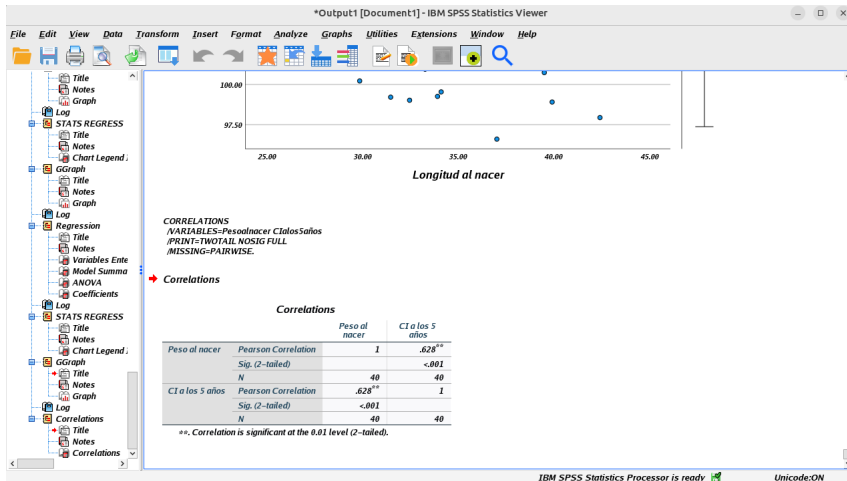


Figure: Correlación de Pearson