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EDG500: Educational Research and Statistics

SPSS Week 11 Chapter 15

➔ Oneway

[DataSet2] C:\Users\Karyn\OneDrive\Documents\Dosage and Pain.sav

Descriptives

Reported Pain Level

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Low Dosage	3	7.0000	1.00000	.57735	4.5159	9.4841	6.00	8.00
Moderate Dosage	3	5.6667	2.08167	1.20185	.4955	10.8378	4.00	8.00
High Dosage	3	2.0000	1.00000	.57735	-.4841	4.4841	1.00	3.00
Total	9	4.8889	2.57121	.85707	2.9125	6.8653	1.00	8.00

ANOVA

Reported Pain Level

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	40.222	2	20.111	9.526	.014
Within Groups	12.667	6	2.111		
Total	52.889	8			

Figure 15.7. SPSS Statistics output for a one-way ANOVA.

➔ Oneway

[DataSet1] C:\Users\Karyn\OneDrive\Documents\SES and Internet.sav

Descriptives

Hours of Internet Usage (Weekly)

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Low SES	4	10.0000	1.82574	.91287	7.0948	12.9052	8.00	12.00
Middle SES	4	12.2500	1.70783	.85391	9.5325	14.9675	10.00	14.00
High SES	4	12.0000	2.16025	1.08012	8.5626	15.4374	10.00	15.00
Total	12	11.4167	2.02073	.58333	10.1328	12.7006	8.00	15.00

ANOVA

Hours of Internet Usage (Weekly)

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	12.167	2	6.083	1.672	.241
Within Groups	32.750	9	3.639		
Total	44.917	11			

Figure 15.2. Hours of Daily Internet Usage for Three Socioeconomic Groups

Exercise for Chapter 15

- a. The mean value for the low-SES group is 10.00.
- b. The mean value for the middle-SES group is 12.25.
- c. The mean value for the high-SES group is 12.00.
- d. The value of $F = 1.672$.
- e. The value of the associated probability is $p = .241$.
- f. The differences among the means for the SES groups statistically at the .05 level are not statistically significant.
- g. Internet usage was reported on a scale with lower scores equaling less usage. The high-SES group's mean reported internet usage hours were 12.00 ($sd = 2.16$). The internet usage hours for the middle-SES and low-SES groups were 12.25 ($sd = 1.71$) and 10.00 ($sd = 1.82$), respectively. The differences among the means are not statistically significant at the .05 level ($F [2,9] = 1.672$, $p = .241$). The null hypothesis cannot be rejected since $p = .241$ is not less than .05 but greater than .01 at the .05 level.