

Results

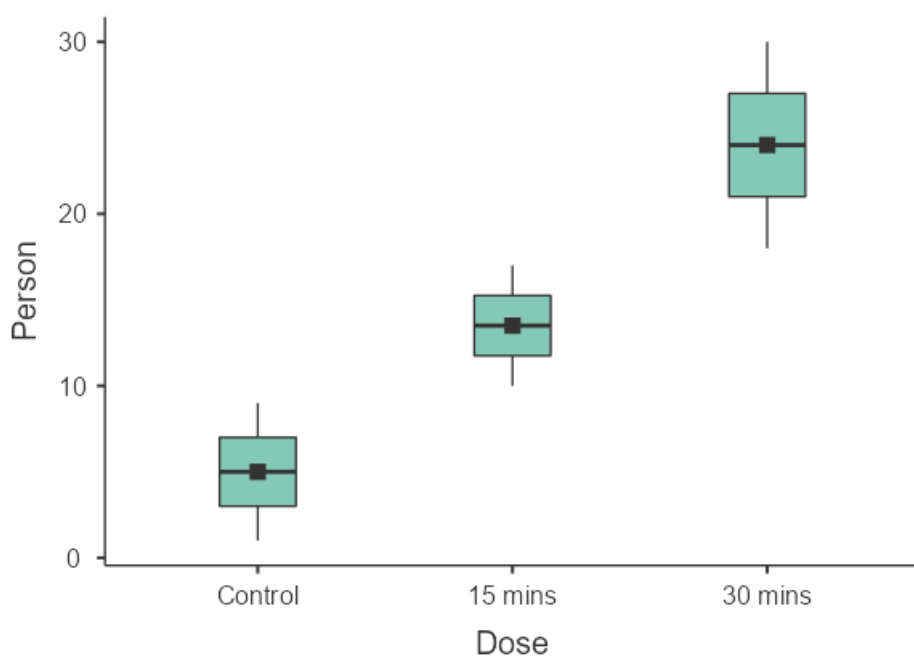
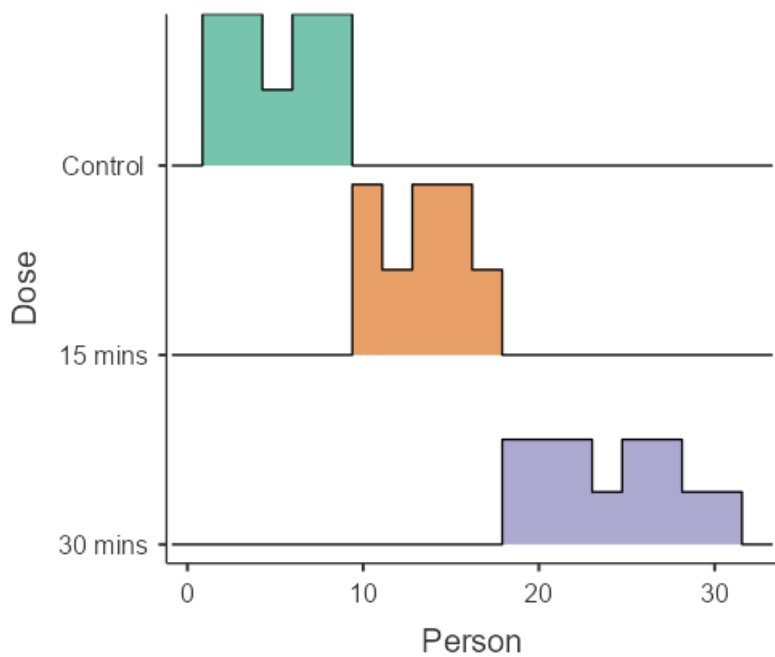
Descriptives

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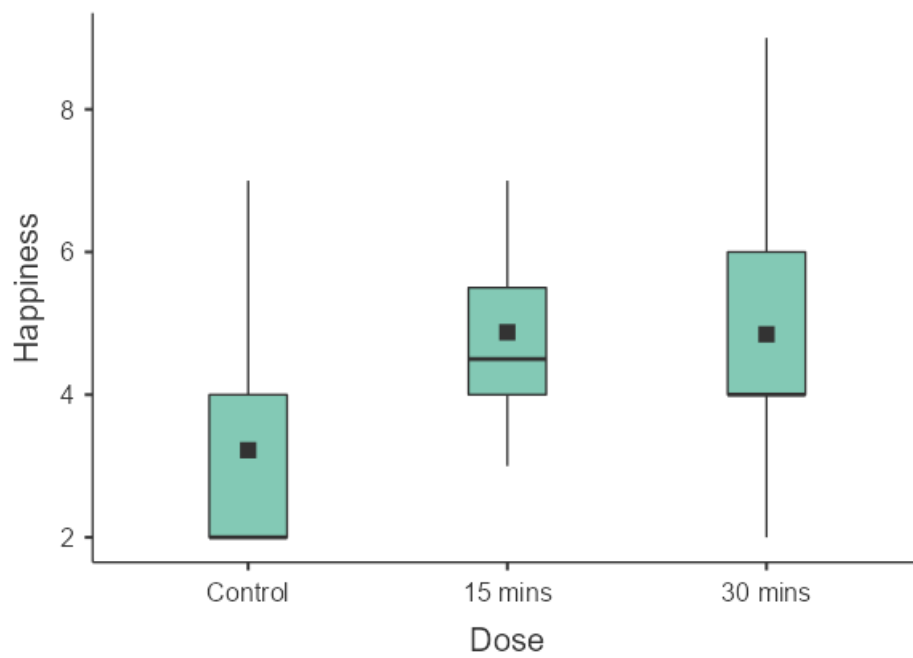
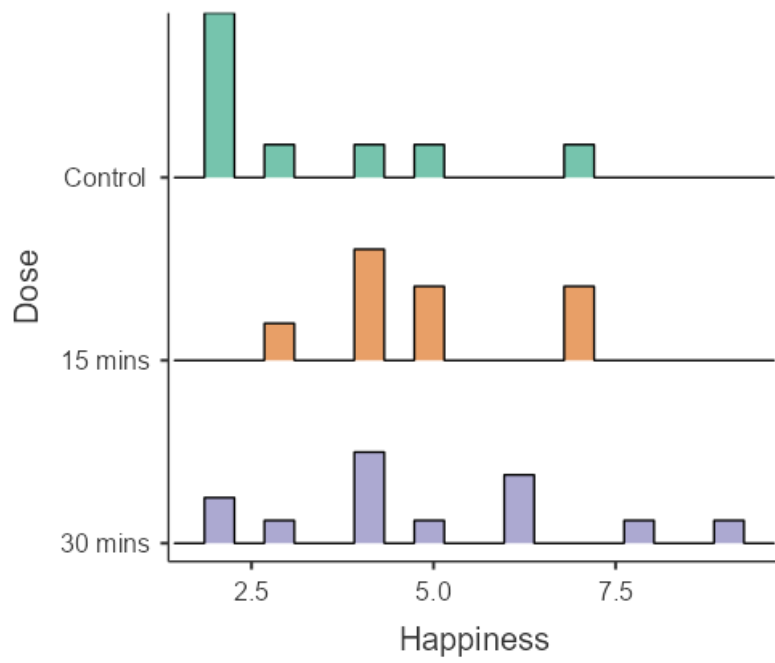
	Dose	Person	Happiness	Puppy_love
N	Control	9	9	9
	15 mins	8	8	8
	30 mins	13	13	13
Missing	Control	0	0	0
	15 mins	0	0	0
	30 mins	0	0	0
Mean	Control	5.00	3.22	3.44
	15 mins	13.5	4.88	3.13
	30 mins	24.0	4.85	2.00
Median	Control	5.00	2.00	4.00
	15 mins	13.5	4.50	2.50
	30 mins	24.0	4.00	2.00
Standard deviation	Control	2.74	1.79	2.07
	15 mins	2.45	1.46	1.73
	30 mins	3.89	2.12	1.63
Minimum	Control	1.00	2.00	1.00
	15 mins	10.0	3.00	1.00
	30 mins	18.0	2.00	0.00
Maximum	Control	9.00	7.00	7.00
	15 mins	17.0	7.00	6.00
	30 mins	30.0	9.00	5.00
Skewness	Control	0.00	1.43	0.319
	15 mins	0.00	0.651	0.635
	30 mins	0.00	0.550	0.271
Std. error skewness	Control	0.717	0.717	0.717
	15 mins	0.752	0.752	0.752
	30 mins	0.616	0.616	0.616
Kurtosis	Control	-1.20	1.34	-0.885
	15 mins	-1.20	-0.732	-0.796
	30 mins	-1.20	-0.161	-0.980
Std. error kurtosis	Control	1.40	1.40	1.40
	15 mins	1.48	1.48	1.48
	30 mins	1.19	1.19	1.19
Shapiro-Wilk W	Control	0.972	0.760	0.921
	15 mins	0.975	0.872	0.919
	30 mins	0.966	0.935	0.912
Shapiro-Wilk p	Control	0.914	0.007	0.400
	15 mins	0.933	0.156	0.425
	30 mins	0.837	0.395	0.195

Plots

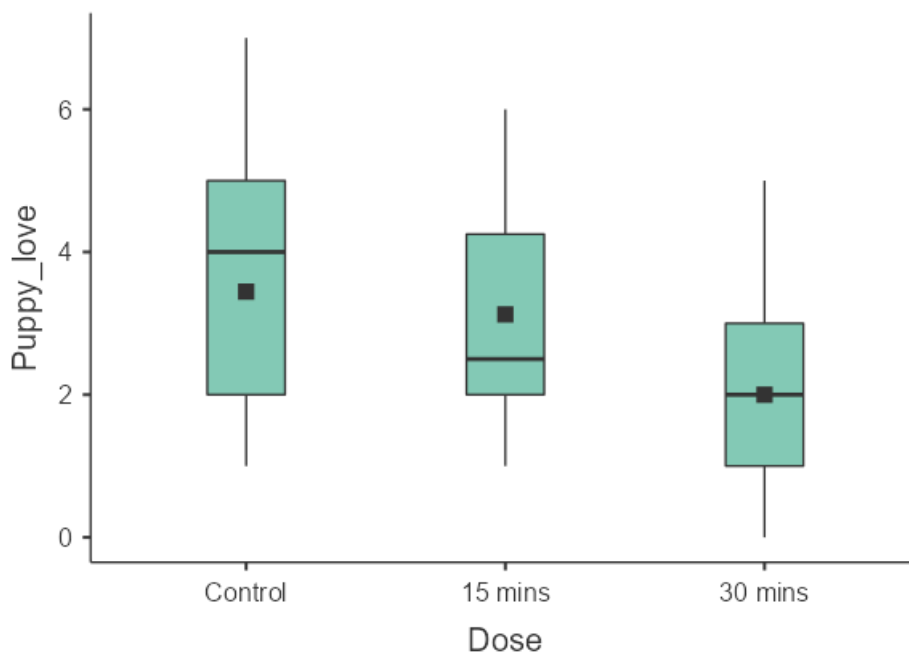
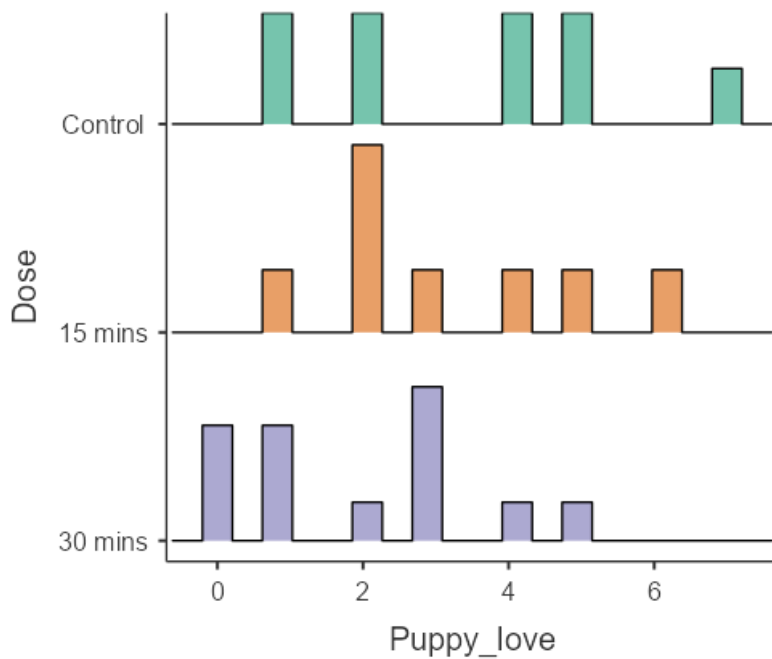
Person



Happiness



Puppy_love



Relationships, Prediction, and Group Comparisons

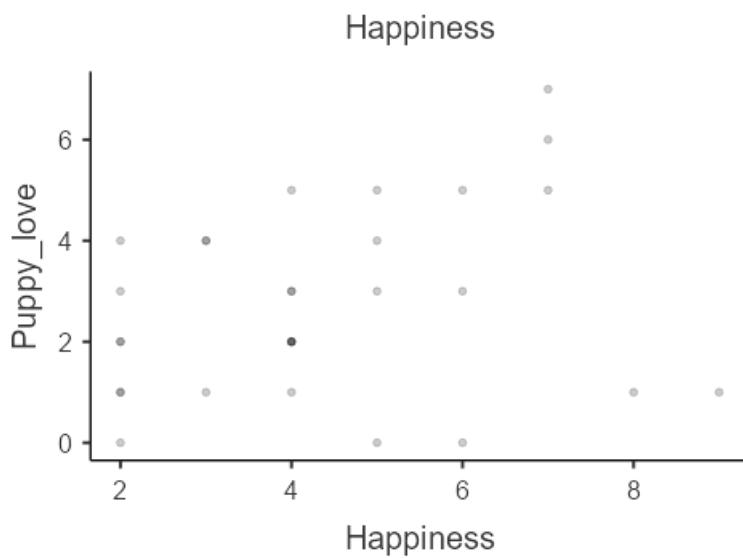
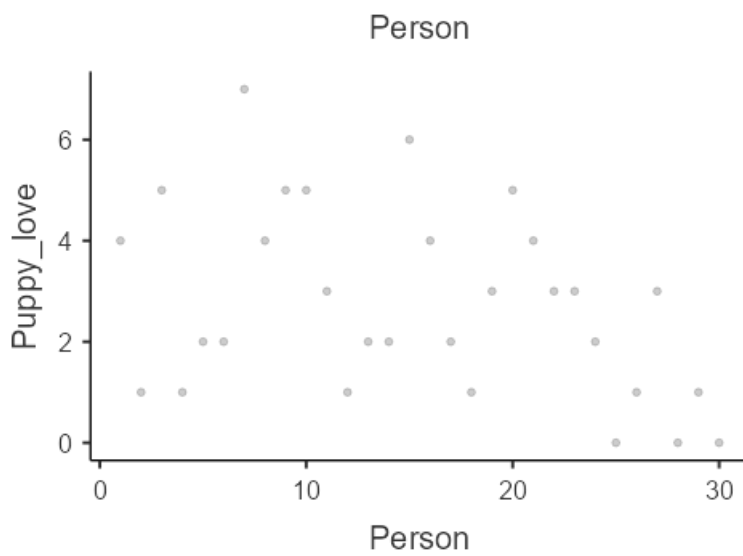
You have entered a numeric dependent variable, one or more categorical (nominal/ordinal) independent variables, and one or more numeric control variables. Hence, an ANCOVA seems to be a good option for you! In order to run this analysis in jamovi, go to: ANOVA > ANCOVA

- Drop your numeric dependent variable in the box below Dependent Variable
- Drop your nominal/ordinal independent variables in the box below Fixed Factors
- Drop your numeric control variables in the box below Covariates

Scatter Plots of Bivariate Relationships - Dependent/Independent Variables



Scatter Plots of Bivariate Relationships - Dependent/Control Variables



ANCOVA

	Sum of Squares	df	Mean Square	F	p	ω^2
Dose	36.6	2	18.28	7.48	0.003	0.234
Puppy_love	17.2	1	17.18	7.03	0.014	0.109
Dose * Puppy_love	20.4	2	10.21	4.18	0.028	0.115
Residuals	58.6	24	2.44			

[3]

Assumption Checks

Homogeneity of Variances Test (Levene's)

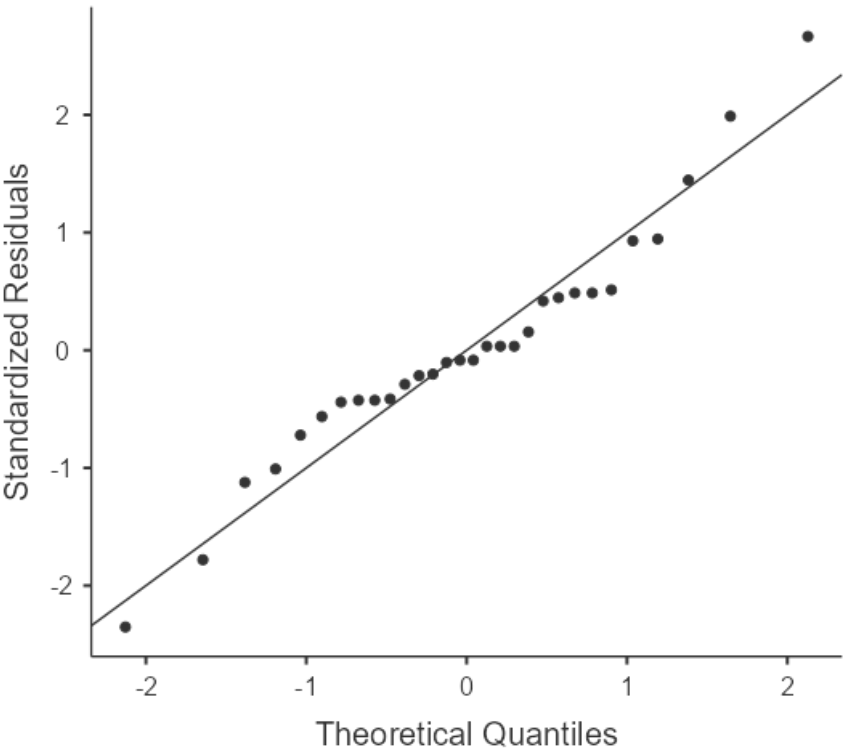
F	df1	df2	p
8.19	2	27	0.002

[3]

Normality Test (Shapiro-Wilk)

Statistic	p
0.948	0.145

Q-Q Plot



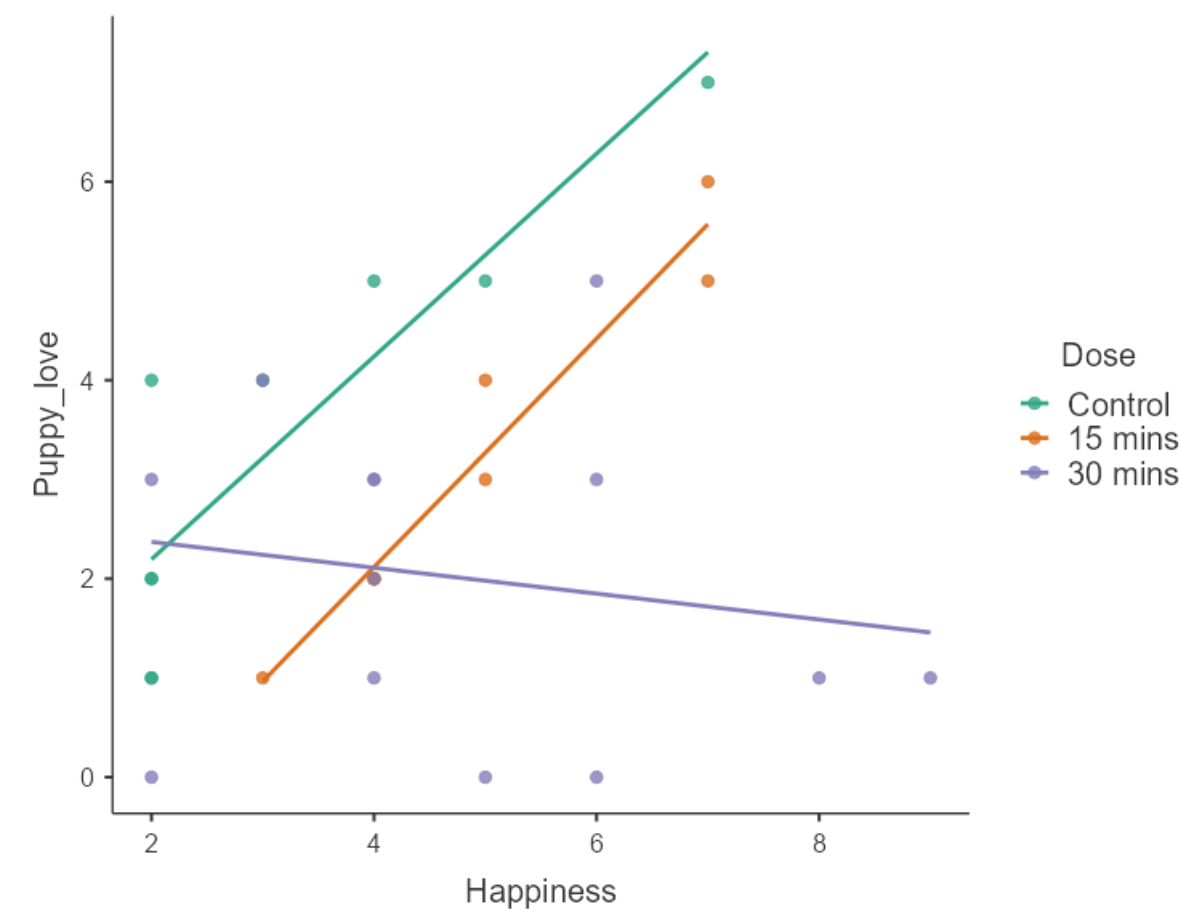
Post Hoc Tests

Comparison		Mean Difference	SE	df	t	P _{Tukey}	Cohen's d
Dose	Dose						
Control	15 mins	-1.874	0.794	24.0	-2.360	0.067	-1.1991
	30 mins	-2.006	0.732	24.0	-2.739	0.030	-1.2836
15 mins	30 mins	-0.132	0.743	24.0	-0.178	0.983	-0.0845

Note. Comparisons are based on estimated marginal means

[4]

Scatterplot



ANCOVA

ANCOVA - Happiness

	Sum of Squares	df	Mean Square	F	p	ω^2
Dose	25.2	2	12.59	4.14	0.027	0.156
Puppy_love	15.1	1	15.08	4.96	0.035	0.098
Residuals	79.0	26	3.04			

[3]

Assumption Checks

Homogeneity of Variances Test (Levene's)

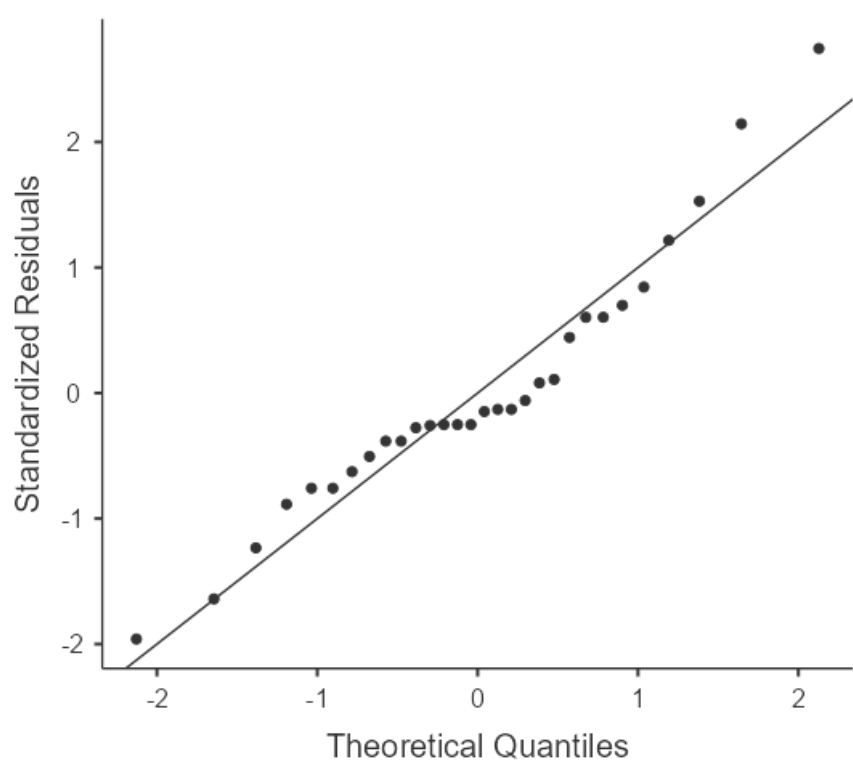
F	df1	df2	p
4.62	2	27	0.019

[3]

Normality Test (Shapiro-Wilk)

Statistic	p
0.943	0.111

Q-Q Plot



Contrasts

Contrasts - Dose

	Estimate	SE	t	p
15 mins - Control	1.79	0.849	2.10	0.045
30 mins - Control	2.22	0.803	2.77	0.010

Post Hoc Tests

Post Hoc Comparisons - Dose

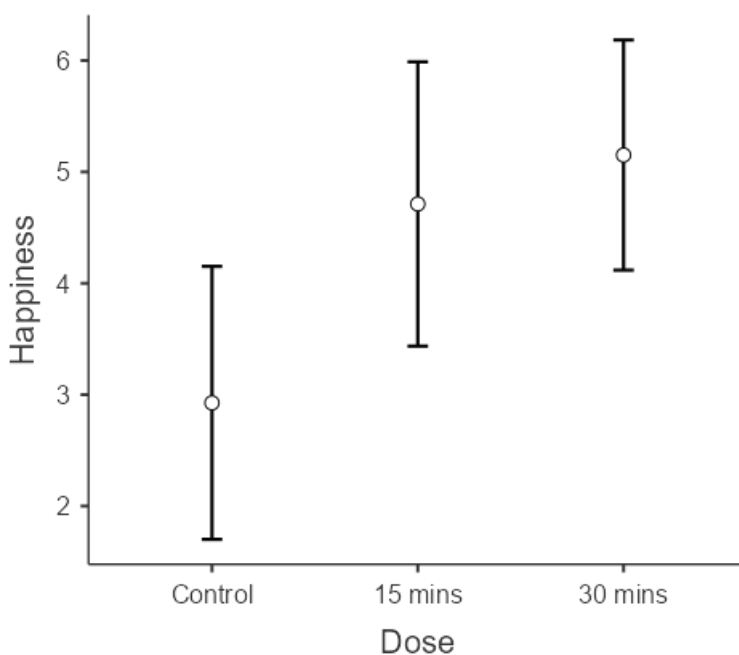
Comparison		Mean Difference	SE	df	t	Pbonferroni
Dose	Dose					
Control	- 15 mins	-1.786	0.849	26.0	-2.102	0.136
	- 30 mins	-2.225	0.803	26.0	-2.771	0.031
15 mins	- 30 mins	-0.439	0.811	26.0	-0.541	1.000

Note. Comparisons are based on estimated marginal means

[4]

Estimated Marginal Means

Dose



Estimated Marginal Means - Dose

Dose	Mean	SE	95% Confidence Interval	
			Lower	Upper
Control	2.93	0.596	1.70	4.15
15 mins	4.71	0.621	3.44	5.99
30 mins	5.15	0.503	4.12	6.18

[4]

References

[1] The jamovi project (2021). *jamovi*. (Version 2.2) [Computer Software]. Retrieved from <https://www.jamovi.org>.

[2] R Core Team (2021). *R: A Language and environment for statistical computing*. (Version 4.0) [Computer software]. Retrieved from <https://cran.r-project.org>. (R packages retrieved from MRAN snapshot 2021-04-01).

[3] Fox, J., & Weisberg, S. (2020). *car: Companion to Applied Regression*. [R package]. Retrieved from <https://cran.r-project.org/package=car>.

[4] Lenth, R. (2020). *emmeans: Estimated Marginal Means, aka Least-Squares Means*. [R package]. Retrieved from <https://cran.r-project.org/package=emmeans>.