

Does BMI have an Effect on Cognitive Restraint Eating Behavior?

One-way Independent ANOVA

IV= BMI Levels = normal, overweight, obese

DV = cognitive restraint scores

Scale = interval

$F(2, 252)=3.54, p=.030, \eta p^2 =.064$

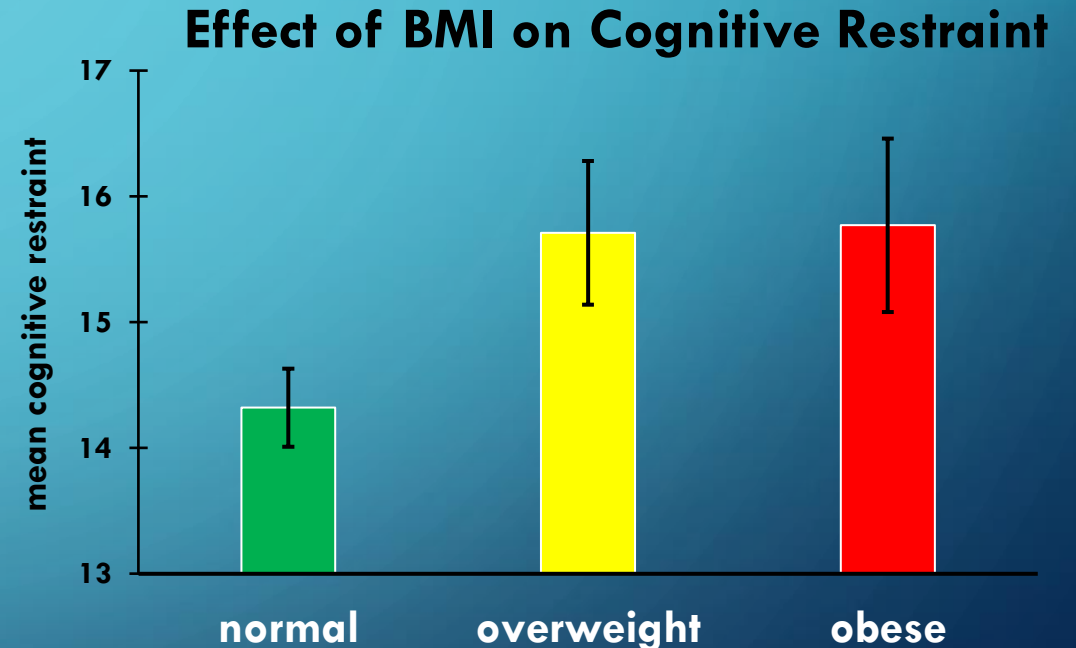
Significant effect of BMI

LSD-t-test results

overweight > normal, $p=.029$

obese > normal but $p=.055$

Overweight BMI individuals probably have higher cognitive restraint compared to normal BMI people.



I copied my SPSS output to word, hi-lighted the numbers I used, and then pasted the tables into the pptx

Important: effect size is missing from the output. YOU need to include partial eta squared

Descriptives								
cog_res								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
normal BMI	165	14.3212	3.97552	.30949	13.7101	14.9323	6.00	24.00
overweight BMI	55	15.7091	4.24994	.57306	14.5602	16.8580	6.00	26.00
obese BMI	35	15.7714	4.07348	.68854	14.3721	17.1707	6.00	24.00
Total	255	14.8196	4.08941	.25609	14.3153	15.3239	6.00	26.00

Test of Homogeneity of Variances			
cog_res			
Levene Statistic	df1	df2	Sig.
.195	2	252	.823

ANOVA					
cog_res					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	116.209	2	58.105	3.544	.030
Within Groups	4131.493	252	16.395		
Total	4247.702	254			

Multiple Comparisons							
Dependent Variable: cog_res							
	(I) BMI_group	(J) BMI_group	Mean Difference		Sig.	95% Confidence Interval	
			(I-J)	Std. Error		Lower Bound	Upper Bound
Tukey HSD	normal BMI	overweight BMI	-1.38788	.63044	.073	-2.8742	.0985
		obese BMI	-1.45022	.75352	.134	-3.2267	.3263
	overweight BMI	normal BMI	1.38788	.63044	.073	-.0985	2.8742
		obese BMI	-.06234	.87551	.997	-2.1265	2.0018
	obese BMI	normal BMI	1.45022	.75352	.134	-.3263	3.2267
		overweight BMI	.06234	.87551	.997	-2.0018	2.1265
Scheffe	normal BMI	overweight BMI	-1.38788	.63044	.091	-2.9402	.1645
		obese BMI	-1.45022	.75352	.159	-3.3056	.4052
	overweight BMI	normal BMI	1.38788	.63044	.091	-.1645	2.9402
		obese BMI	-.06234	.87551	.997	-2.2182	2.0935
	obese BMI	normal BMI	1.45022	.75352	.159	-.4052	3.3056
		overweight BMI	.06234	.87551	.997	-2.0935	2.2182
LSD	normal BMI	overweight BMI	-1.38788*	.63044	.029	-2.6295	-.1463
		obese BMI	-1.45022	.75352	.055	-2.9342	.0338
	overweight BMI	normal BMI	1.38788*	.63044	.029	.1463	2.6295
		obese BMI	-.06234	.87551	.943	-1.7866	1.6619
	obese BMI	normal BMI	1.45022	.75352	.055	-.0338	2.9342
		overweight BMI	.06234	.87551	.943	-1.6619	1.7866

*. The mean difference is significant at the 0.05 level.