King's College London

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PG Cert/PG Dip/MSc Examination

7PADMPAR Research Skills: From Methods & Procedures to

Analysis & Reporting; Coursework 2 Paper

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Student ID Number <u>19071714</u> Date <u>15 December 2021</u>

Coursework Assessment II
Research Skills: From Methods & Procedures to Analysis and Reporting
(7PADMPAR)

Study 1 Part 1

For this study, seventy-two participants were recruited. All of them watched a series of video clips of graphic violence in order to elicit intrusive memories. After 24 hours, they returned to the lab and were randomly assigned to 4 groups: 'No-task control' (n = 18), 'Reactivation+Tetris' (n = 18), 'Tetris Only' (n = 18) and 'Reactivation Only' (n = 18).

Preliminary comparisons of the means were carried out to verify whether the participants in each condition were equally paying attention to the film as well as whether no one condition group showed a higher or lower level of distress.

It has been found that the mean attention paid score for all groups was 9.49 (SD = .65) and the mean scores for the control group (M = 9.67, SD = .49), the 'Reactivation + Tetris' group (M = 9.28, SD = .83), the 'Tetris Only' group (M = 9.56, SD = .61) and the 'Reactivation Only' group (M = 9.44, SD = .62) were similar.

The mean post film distress rating score for all groups was 6.26 (SD = 2.15) with similar mean scores for the control group (M = 6.44, SD = 1.88), the 'Reactivation + Tetris' group (M = 6.44, SD = 1.69), the 'Tetris Only' group (M = 6.11, SD = 2.59) and the 'Reactivation Only' group (M = 6.05, SD = 2.16).

Pre-intervention mean number of image-based intrusive memories was 3.32 (SD = 2.21) with equal occurrence of intrusive memories for the control group (M = 3.56, SD = 2.41), the 'Reactivation + Tetris' group (M = 3.11, SD = 2.25), the 'Tetris Only' group (M = 3.17, SD = 1.58) and the 'Reactivation Only' group (M = 3.44, SD = 2.64), as predicted.

Following the experimental task, the descriptive analysis found a difference for each of the four conditions groups in the mean number of memory intrusions on the seven days, with the 'Reactivation+Tetris' group showing the lowest mean number of intrusions (M = 1.89, SD = 1.75), followed by the 'Tetris Only group' (M = 3.89, SD = 2.89) and the 'Reactivation Only' group (M = 4.83, SD = 3.33), while the 'No-Task Control' group shows the highest mean number of intrusions (M = 5.11, SD = 4.23).

A one-way between-group ANOVA found the differences between group mean number of memory intrusions to be significant (F(3, 68) = 3.80, p = .014, $\eta_p^2 = .14$)

Post-hoc comparisons indicated that there is a significant difference between the 'No-Task Control' group and the 'Reactivation+Tetris' (p = .017), and between the 'Reactivation Only' and the 'Reactivation+Tetris' (p = .034). However, comparisons between the others group were found to be not significant.

The figure 1 below shows the means number of intrusive memories over the seven days following the Experimental Task for the four groups.

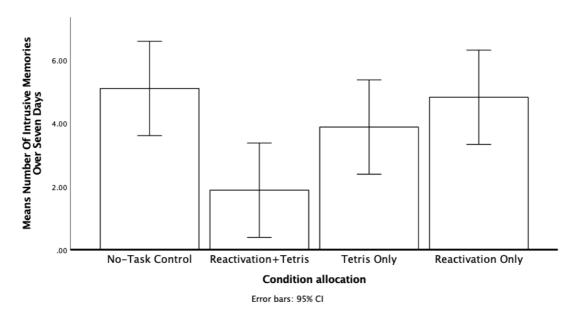


Figure 1: Mean numbers of intrusive memories over the seven days following the Experimental Task for the four conditions 'No-Task Control', 'Reactivation+Tetris', 'Tetris Only', and 'Reactivation Only'.

Regarding the number of image based intrusive memories during the 2-minutes Intrusion Provocation Task on day 7, the descriptive analysis found a difference in the mean between the four groups, with the 'Reactivation+Tetris' group showing the lowest mean number of intrusions (M = 1.11, SD = 1.78), followed by the 'Tetris Only group' (M = 3.11, SD = 2.52), whilst the No-Task Control' group (M = 3.39, SD = 2.81) and the 'Reactivation Only' group (M = 4.17, SD = 2.12) show a higher mean number of intrusions.

The one-way between-group ANOVA found the differences between group mean number of memory intrusions to be significant (F(3, 68) = 5.57, p = .002, $\eta_p^2 = .20$).

A post hoc analysis found a significant difference between the 'No-Task Control' group and the 'Reactivation+Tetris' group (p = .024), and between the 'Reactivation Only' group and the 'Reactivation+Tetris' group (p = .001). No other comparisons were found to be significant.

Study 1 Part 2

The preintervention descriptive analysis was made by observing the means of the different groups regarding the attention paid to the film score, the post film distress score and the number of intrusive memories prior to the experimental task. There was no effect to be found, that's why a simple descriptive analysis comparison of the means was chosen.

After intervention, and as this between groups study involved more than two conditions (four groups in this case), an unrelated ANOVA analysis (as opposed to a ttest) was chosen to be carried out for the analysis of the effect of the experimental manipulation (Field, 2009). As the results were found to be significant for the two variables of interest, a post hoc analysis was performed using Tukey's Honestly Significant Difference test which has good power and controls over Type I error in the case of an equal sample counts between groups (Field, 2009).

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References

Field. (2009). Discovering Statistics Using SPSS. Sage Publications.

Study 2 Part 1

The analyses are based on an observational study conducted on eligible students from Halifax University (N = 137) who completed an online questionnaire about their alcohol use, drinking motives, positive and negative affect, social support and anxiety.

Firstly, to understand the relationship between alcohol use and the four drinking motives (social motives, enhancement motives, coping motives and conformity motives), a Pearson's r correlation analysis was performed with alcohol use as the dependent variable.

The analysis shows a small positive correlation (cf. Figure 1) between alcohol use and social motives (r = .18, p = .036, n = 137) as well as between alcohol use and enhancement motives (r = .21, p = .013, n = 137) as shown below (cf. Figure 2). No significant correlation was found for the other variables (coping and conformity motives).

This analysis shows that alcohol use by students at Halifax University is correlated with two of the four drinking motives predicted, social and enhancement motives.

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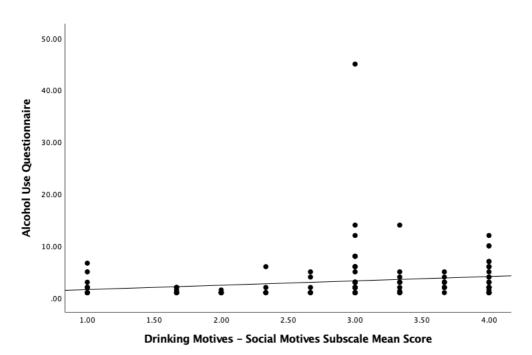


Figure 1 - Correlation between alcohol use and social motives

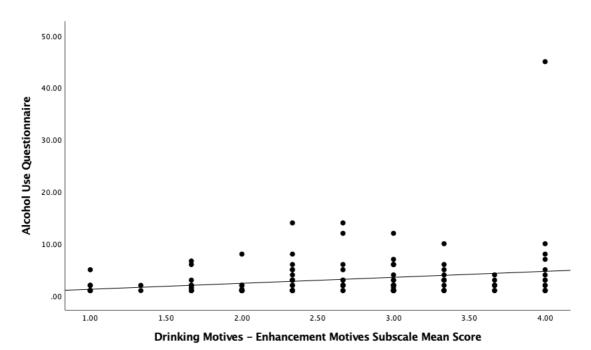


Figure 2 - Correlation between alcohol use and enhancement motives

Secondly, we were interested to look at the correlation between alcohol-relatedproblems and the drinking motives.

A Pearson's r analysis found a moderate positive correlation between alcohol-related-problems and social motives (r = .31, p < .001, n = 137) (cf. Figure 3) and between alcohol-related-problems and coping motives (r = .39, p < .001, n = 137) (cf. Figure 4) as well as a small positive correlation between alcohol-related-problems and enhancement motives (r = .22, p = .009, n = 137) (cf. Figure 5), and between alcohol-related-problems and conformity motives (r = .22, p = .009, n = 137) (cf. Figure 6).

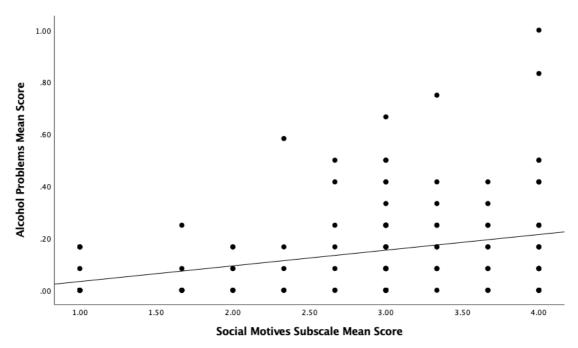


Figure 3 – Correlation between alcohol-related-problems and social motives

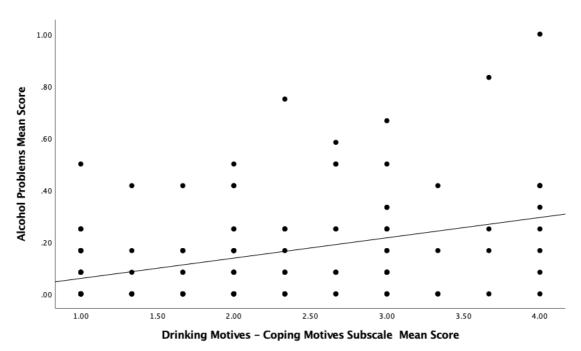


Figure 4 – Correlation between alcohol-related-problems and coping motives

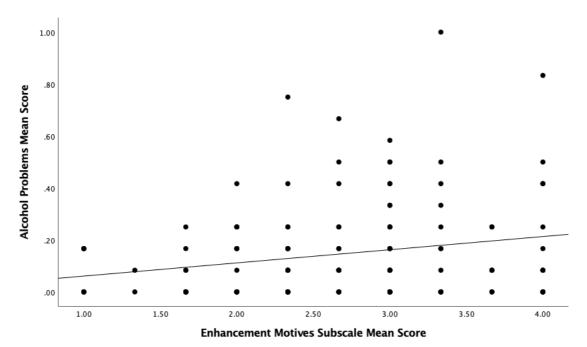


Figure 5 – Correlation between alcohol-related-problems and enhancement motives

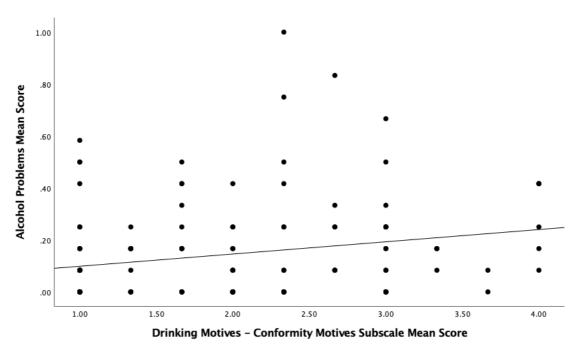


Figure 6 – Correlation between alcohol-related-problems and conformity motives

To understand the relationship between participants beliefs on the level of support they had and alcohol-related-problems, a Pearson's r was performed and shows that state perceived social support variable is negatively correlated (cf. Figure 7) with alcohol-related-problems (r = -.19, p = .031, n = 137). This analysis shows that higher state perceived social support is linked with lower alcohol problems.

Finally, a multiple regression analysis was performed with alcohol related problems as the dependent variable and drinking motive coping, state social anxiety, satisfaction with life and negative affect as the predictor variables.

The regression model shows that 23% of the alcohol related problems score can be predicted by the four above predictors (R^2 = .23, Adjusted R^2 = .21, F(4, 132) = 9.78, p <.001).

The strongest predictor for alcohol related problems was drinking motive-coping (β = .30, p <.001) followed by state social anxiety as the second-best predictor (β = .27, p = .007).

The two other variables, satisfaction with life (β = .05, p = .58) and negative affect (β = .07, p = .52) were not significant.

Study 2 Part 2

For this study, as we want to look at relationships between alcohol use and alcohol related problems with regards to different motives, a Pearson's r correlation analysis was asked to be performed. The Person's correlation coefficient shows the standardized covariance that expresses the measure of the strength and the direction of a relationship between different variables that are interval or scale variables (Field, 2009). For this study, we can observe that the relationships between the variables are weak to moderate (Pearson's r coefficients are less than .5).

As there are some relationships between the variables, a regression was asked to

take a step further. The regression is useful to predict an outcome variable (in this

case, alcohol related problems) from one (simple regression) or multiple predictors

variables (multiple regression). The multiple regression enables us to see how much

percentage the variables all together account in the prediction of the outcome of

interest. The correlation coefficient is an indicator of how good the fit of the

regression model is (Fields, 2009). Finally, the standardized coefficients Beta allows

us to answer the question of the strongest and weakest predictor of the outcome

variable.

References

Field. (2009). Discovering Statistics Using SPSS. Sage Publications.

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Appendix A

Appendix A.1. Descriptive Statistics for the attention paid to the film variable

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Attention paid to the film rating: How much attention did you pay to the film from 0-not at all to 10-extremely	72	8.00	10.00	9.4861	.64988
Valid N (listwise)	72				

Appendix A.2. Comparison of the attention paid to the film score means between the four groups

Case Processing Summary

	Cases						
	Inclu	ded	Exclu	Excluded		Total	
	N Percent		N Percent		N	Percent	
Attention paid to the film rating: How much attention did you pay to the film from 0-not at all to 10-extremely * Condition allocation	72	100.0%	0	0.0%	72	100.0%	

Report

 $Attention \ paid \ to \ the \ film \ rating: \ How \ much \ attention \ did \ you \ pay \ to \ the \ film \ from \ 0-not \ at \ all \ to \ 10-extremely$

Condition allocation	Mean	N	Std. Deviation
No-Task Control	9.6667	18	.48507
Reactivation+Tetris	9.2778	18	.82644
Tetris Only	9.5556	18	.61570
Reactivation Only	9.4444	18	.61570
Total	9.4861	72	.64988

Appendix A.3. Descriptive Statistics for the post film distress variable

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Post film distress rating: How distressing did you find the film from 0-not at all to 10-extremely	72	.00	10.00	6.2639	2.15585
Valid N (listwise)	72				

Appendix A.4. Comparison of the post film distress score means between the four groups

Case Processing Summary

	Cases						
	Inclu	ded	Excluded		Total		
	N Percent N Percen		Percent	N	Percent		
Post film distress rating: How distressing did you find the film from 0-not at all to 10-extremely * Condition allocation	72	100.0%	0	0.0%	72	100.0%	

Report

Post film distress rating: How distressing did you find the film from 0-not at all to 10-extremely

Condition allocation	Mean	N	Std. Deviation
No-Task Control	6.4444	18	1.88562
Reactivation+Tetris	6.4444	18	1.68810
Tetris Only	6.1111	18	2.58705
Reactivation Only	6.0556	18	2.48459
Total	6.2639	72	2.15585

Appendix A.5. Means Comparison between the four groups for the number of intrusions at Day 0

Case Processing Summary

	Cases					
	Inclu	ded	Excluded		Total	
	N	Percent	N	Percent	N	Percent
Day 0: Number of image-based intrusive memories in the Intrusion Diary [pre-intervention] * Condition allocation	72	100.0%	0	0.0%	72	100.0%

Report

Day 0: Number of image-based intrusive memories in the Intrusion Diary [pre-intervention]

Condition allocation	Mean	N	Std. Deviation
No-Task Control	3.5556	18	2.40642
Reactivation+Tetris	3.1111	18	2.24628
Tetris Only	3.1667	18	1.58114
Reactivation Only	3.4444	18	2.63957
Total	3.3194	72	2.21281

Appendix A.6. ANOVA of the means number of memory intrusions on the seven days following the experimental task between the four conditions

Between-Subjects Factors

		Value Label	N
Condition allocation	1.00	No-Task Control	18
	2.00	Reactivation +Tetris	18
	3.00	Tetris Only	18
	4.00	Reactivation Only	18

Descriptive Statistics

Dependent Variable: Days 1-7: Number of image-based intrusive memories in the Intrusion Diary [post-intervention]

Condition allocation	Mean	Std. Deviation	N
No-Task Control	5.1111	4.22721	18
Reactivation+Tetris	1.8889	1.74521	18
Tetris Only	3.8889	2.88788	18
Reactivation Only	4.8333	3.32990	18
Total	3.9306	3.35809	72

Levene's Test of Equality of Error Variances^{a,b}

		Levene Statistic	df1	df2	Sig.
Days 1-7: Number of	Based on Mean	2.955	3	68	.039
image-based intrusive memories in the	Based on Median	1.693	3	68	.177
Intrusion Diary [post- intervention]	Based on Median and with adjusted df	1.693	3	52.791	.180
	Based on trimmed mean	2.485	3	68	.068

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

Tests of Between-Subjects Effects

Dependent Variable: Days 1-7: Number of image-based intrusive memories in the Intrusion Diary [post-intervention]

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	114.819 ^a	3	38.273	3.795	.014	.143
Intercept	1112.347	1	1112.347	110.289	<.001	.619
Condition	114.819	3	38.273	3.795	.014	.143
Error	685.833	68	10.086			
Total	1913.000	72				
Corrected Total	800.653	71				

a. R Squared = .143 (Adjusted R Squared = .106)

Appendix A.7. Post-hoc comparison of the number of memory intrusions on the seven days following the experimental task

a. Dependent variable: Days 1-7: Number of image-based intrusive memories in the Intrusion Diary [post-intervention]

b. Design: Intercept + Condition

Multiple Comparisons

Dependent Variable: Days 1-7: Number of image-based intrusive memories in the Intrusion Diary [post-intervention] Tukey HSD

		Mean Difference (I-			95% Confide	ence Interval
(I) Condition allocation	(J) Condition allocation	J)	Std. Error	Sig.	Lower Bound	Upper Bound
No-Task Control	Reactivation+Tetris	3.2222*	1.05860	.017	.4342	6.0103
	Tetris Only	1.2222	1.05860	.657	-1.5658	4.0103
	Reactivation Only	.2778	1.05860	.994	-2.5103	3.0658
Reactivation+Tetris	No-Task Control	-3.2222*	1.05860	.017	-6.0103	4342
	Tetris Only	-2.0000	1.05860	.242	-4.7881	.7881
	Reactivation Only	-2.9444*	1.05860	.034	-5.7325	1564
Tetris Only	No-Task Control	-1.2222	1.05860	.657	-4.0103	1.5658
	Reactivation+Tetris	2.0000	1.05860	.242	7881	4.7881
	Reactivation Only	9444	1.05860	.809	-3.7325	1.8436
Reactivation Only	No-Task Control	2778	1.05860	.994	-3.0658	2.5103
	Reactivation+Tetris	2.9444*	1.05860	.034	.1564	5.7325
	Tetris Only	.9444	1.05860	.809	-1.8436	3.7325

Based on observed means.
The error term is Mean Square(Error) = 10.086.

Appendix A.8. ANOVA of the means number of intrusions on the provocation task between the four conditions

Between-Subjects Factors

		Value Label	N
Condition allocation	1.00	No-Task Control	18
	2.00	Reactivation +Tetris	18
	3.00	Tetris Only	18
	4.00	Reactivation Only	18

Descriptive Statistics

Dependent Variable: Intrusion Provocation Task [IPT]: Number of image-based intrusive memories during 2min laboratory task on Day 7

Condition allocation	Mean	Std. Deviation	N
No-Task Control	3.3889	2.81046	18
Reactivation+Tetris	1.1111	1.77859	18
Tetris Only	3.1111	2.51791	18
Reactivation Only	4.1667	2.12132	18
Total	2.9444	2.55579	72

Levene's Test of Equality of Error Variances a,b

		Levene Statistic	df1	df2	Sig.
Intrusion Provocation Task [IPT]: Number of image-based intrusive memories during 2min laboratory task on Day 7	Based on Mean	1.886	3	68	.140
	Based on Median	2.150	3	68	.102
	Based on Median and with adjusted df	2.150	3	57.954	.104
	Based on trimmed mean	1.997	3	68	.123

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

^{*.} The mean difference is significant at the .05 level.

a. Dependent variable: Intrusion Provocation Task [IPT]: Number of image-based intrusive memories during 2min laboratory task on Day 7

b. Design: Intercept + Condition

Tests of Between-Subjects Effects

Dependent Variable: Intrusion Provocation Task [IPT]: Number of image-based intrusive memories during 2min laboratory task on Day 7

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	91.444 ^a	3	30.481	5.567	.002	.197
Intercept	624.222	1	624.222	114.003	<.001	.626
Condition	91.444	3	30.481	5.567	.002	.197
Error	372.333	68	5.475			
Total	1088.000	72				
Corrected Total	463.778	71				

a. R Squared = .197 (Adjusted R Squared = .162)

Appendix A.9. Post-hoc comparison of the number of intrusions on the provocation task between the four conditions

Multiple Comparisons

Dependent Variable: Intrusion Provocation Task [IPT]: Number of image-based intrusive memories during 2min laboratory Tukey HSD

		Mean Difference (I-			95% Confide	ence Interval
(I) Condition allocation	(J) Condition allocation	J)	Std. Error	Sig.	Lower Bound	Upper Bound
No-Task Control	Reactivation+Tetris	2.2778*	.77999	.024	.2235	4.3321
	Tetris Only	.2778	.77999	.984	-1.7765	2.3321
	Reactivation Only	7778	.77999	.752	-2.8321	1.2765
Reactivation+Tetris	No-Task Control	-2.2778*	.77999	.024	-4.3321	2235
	Tetris Only	-2.0000	.77999	.059	-4.0543	.0543
	Reactivation Only	-3.0556*	.77999	.001	-5.1098	-1.0013
Tetris Only	No-Task Control	2778	.77999	.984	-2.3321	1.7765
	Reactivation+Tetris	2.0000	.77999	.059	0543	4.0543
	Reactivation Only	-1.0556	.77999	.533	-3.1098	.9987
Reactivation Only	No-Task Control	.7778	.77999	.752	-1.2765	2.8321
	Reactivation+Tetris	3.0556*	.77999	.001	1.0013	5.1098
	Tetris Only	1.0556	.77999	.533	9987	3.1098

Based on observed means.
The error term is Mean Square(Error) = 5.475.

^{*.} The mean difference is significant at the .05 level.

Appendix B

Appendix B.1. Pearson's *r* correlation analysis between alcohol use and drinking motives

Correlations

		Alcohol Use Questionnair e	Drinking Motives Revised – Short Form: Social Motives Subscale Mean Score	Drinking Motives Revised – Short Form: Coping Motives Subscale Mean Score	Drinking Motives Revised – Short Form: Enhancement Motives Subscale Mean Score	Drinking Motives Revised – Short Form: Conformity Motives Subscale Mean Score
Alcohol Use Ouestionnaire	Pearson Correlation	1	.179*	.025	.211*	.000
Questionnaire	Sig. (2-tailed)		.036	.772	.013	.999
	N	137	137	137	137	137
Drinking Motives Revised –Short Form:	Pearson Correlation	.179*	1	.274**	.533**	.486**
Social Motives Subscale	Sig. (2-tailed)	.036		.001	<.001	<.001
Mean Score	N	137	137	137	137	137
Drinking Motives Revised –Short Form:	Pearson Correlation	.025	.274**	1	.419**	.305**
Coping Motives Subscale	Sig. (2-tailed)	.772	.001		<.001	<.001
Mean Score	N	137	137	137	137	137
Drinking Motives Revised –Short Form:	Pearson Correlation	.211*	.533**	.419**	1	.144
Enhancement Motives	Sig. (2-tailed)	.013	<.001	<.001		.094
Subscale Mean Score	N	137	137	137	137	137
Drinking Motives Revised –Short Form:	Pearson Correlation	.000	.486**	.305**	.144	1
Conformity Motives	Sig. (2-tailed)	.999	<.001	<.001	.094	
Subscale Mean Score	N	137	137	137	137	137

^{*.} Correlation is significant at the 0.05 level (2-tailed).

Appendix B.2. Pearson's *r* correlation analysis between alcohol-related-problems and drinking motives

Correlations

		Alcohol Problems Checklist Mean Score	Drinking Motives Revised – Short Form: Social Motives Subscale Mean Score	Drinking Motives Revised – Short Form: Enhancement Motives Subscale Mean Score	Drinking Motives Revised – Short Form: Coping Motives Subscale Mean Score	Drinking Motives Revised – Short Form: Conformity Motives Subscale Mean Score
Alcohol Problems Checklist Mean Score	Pearson Correlation	1	.306**	.222**	.391**	.221**
Checklist Mean Score	Sig. (2-tailed)		<.001	.009	<.001	.009
	N	137	137	137	137	137
Drinking Motives Revised –Short Form:	Pearson Correlation	.306**	1	.533**	.274**	.486**
Social Motives Subscale	Sig. (2-tailed)	<.001		<.001	.001	<.001
Mean Score	N	137	137	137	137	137
Drinking Motives Revised –Short Form:	Pearson Correlation	.222**	.533**	1	.419**	.144
Enhancement Motives	Sig. (2-tailed)	.009	<.001		<.001	.094
Subscale Mean Score	N	137	137	137	137	137
Drinking Motives Revised –Short Form:	Pearson Correlation	.391**	.274**	.419**	1	.305**
Coping Motives Subscale Mean Score	Sig. (2-tailed)	<.001	.001	<.001		<.001
	N	137	137	137	137	137
Drinking Motives Revised –Short Form:	Pearson Correlation	.221**	.486**	.144	.305**	1
Conformity Motives	Sig. (2-tailed)	.009	<.001	.094	<.001	
Subscale Mean Score	N	137	137	137	137	137

^{**.} Correlation is significant at the 0.01 level (2-tailed).

^{**.} Correlation is significant at the 0.01 level (2-tailed).

Appendix B.3. Pearson's *r* correlation analysis between beliefs on the level of support and alcohol-related-problems

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		State Perceived Social Support Mean Score	Alcohol Problems Checklist Mean Score
State Perceived Social	Pearson Correlation	1	185*
Support Mean Score	Sig. (2-tailed)		.031
	N	137	137
Alcohol Problems Checklist Mean Score	Pearson Correlation	185 [*]	1
	Sig. (2-tailed)	.031	
	N	137	137

^{*.} Correlation is significant at the 0.05 level (2-tailed).

Appendix B.4. Multiple linear regression between alcohol-related-problems (criterion) and coping as a dinking motive, sate social anxiety, life satisfaction and negative affect

Variables Entered/Removeda

Model	Variables Entered	Variables Removed	Method
1	PANAS Negative Affect Mean Score, Drinking Motives Revised - Short Form: Coping Motives Subscale Mean Score, 5-item Satisfaction with Life Scale Mean Score, State Social Anxiety Mean Score	•	Enter

a. Dependent Variable: Alcohol Problems Checklist Mean Score

b. All requested variables entered.

Descriptive Statistics

	Mean	Std. Deviation	N
Alcohol Problems Checklist Mean Score	.1442	.18838	137
Drinking Motives Revised -Short Form: Coping Motives Subscale Mean Score	2.0827	.94262	137
State Social Anxiety Mean Score	3.0073	1.01893	137
5-item Satisfaction with Life Scale Mean Score	4.2938	1.51805	137
PANAS Negative Affect Mean Score	1.9579	.91458	137

Correlations

		201101				
		Alcohol Problems Checklist Mean Score	Drinking Motives Revised – Short Form: Coping Motives Subscale Mean Score	State Social Anxiety Mean Score	5-item Satisfaction with Life Scale Mean Score	PANAS Negative Affect Mean Score
Pearson Correlation	Alcohol Problems Checklist Mean Score	1.000	.391	.376	182	.319
	Drinking Motives Revised –Short Form: Coping Motives Subscale Mean Score	.391	1.000	.305	247	.397
	State Social Anxiety Mean Score	.376	.305	1.000	454	.601
	5-item Satisfaction with Life Scale Mean Score	182	247	454	1.000	566
	PANAS Negative Affect Mean Score	.319	.397	.601	566	1.000
Sig. (1-tailed)	Alcohol Problems Checklist Mean Score		<.001	<.001	.017	<.001
	Drinking Motives Revised –Short Form: Coping Motives Subscale Mean Score	.000		.000	.002	.000
	State Social Anxiety Mean Score	.000	.000		.000	.000
	5-item Satisfaction with Life Scale Mean Score	.017	.002	.000		.000
	PANAS Negative Affect Mean Score	.000	.000	.000	.000	
N	Alcohol Problems Checklist Mean Score	137	137	137	137	137
	Drinking Motives Revised –Short Form: Coping Motives Subscale Mean Score	137	137	137	137	137
	State Social Anxiety Mean Score	137	137	137	137	137
	5-item Satisfaction with Life Scale Mean Score	137	137	137	137	137
	PANAS Negative Affect Mean Score	137	137	137	137	137

Model Summaryb

Model	odel R R Square		Adjusted R Square	Std. Error of the Estimate	
1	.478 ^a	.229	.205	.16794	

- a. Predictors: (Constant), PANAS Negative Affect Mean Score, Drinking Motives Revised -Short Form: Coping Motives Subscale Mean Score, 5-item Satisfaction with Life Scale Mean Score, State Social Anxiety Mean Score
- Dependent Variable: Alcohol Problems Checklist Mean Score

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1.103	4	.276	9.781	<.001 ^b
	Residual	3.723	132	.028		
	Total	4.826	136			

- a. Dependent Variable: Alcohol Problems Checklist Mean Score
- b. Predictors: (Constant), PANAS Negative Affect Mean Score, Drinking Motives Revised -Short Form: Coping Motives Subscale Mean Score, 5-item Satisfaction with Life Scale Mean Score, State Social Anxiety Mean Score

Coefficientsa

		Unstandardized Coefficients		Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	184	.091		-2.007	.047
	Drinking Motives Revised -Short Form: Coping Motives Subscale Mean Score	.059	.017	.295	3.523	<.001
	State Social Anxiety Mean Score	.049	.018	.267	2.741	.007
	5-item Satisfaction with Life Scale Mean Score	.007	.012	.053	.558	.578
	PANAS Negative Affect Mean Score	.015	.022	.070	.649	.517

a. Dependent Variable: Alcohol Problems Checklist Mean Score