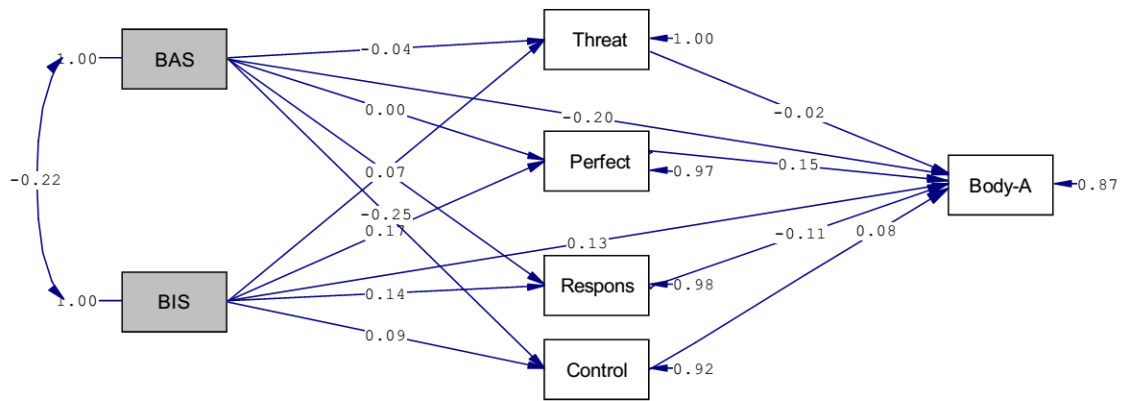


**Table 1)** Mean and standard deviation for sensitivity to reinforcement, obsessive beliefs and physical satisfaction

Variable	Boy	Girl	Total
	Mean ± SD	Mean ± SD	Mean ± SD
<b>Behavioral Activator System</b>	16.54±2.87	17.39±3.84	16.74±3.04
<b>Behavioral Inhibitory System</b>	18.22±3.14	16.57±2.69	17.83±3.12
<b>Threat</b>	11.48±3.24	12.85±3.26	11.81±3.29
<b>Perfectionism</b>	15.43±3.76	16.67±3.99	15.72±3.84
<b>Accountability</b>	9.95±2.71	10.71±3.34	10.13±2.64
<b>Importance of thought</b>	11.61±3.73	12.65±3.07	11.86±3.61
<b>Physical satisfaction</b>	37.87±5.60	39.96±6.95	38.36±6.00

**Table 2)** Correlation matrix of research variables

<b>Variables</b>	<b>Behavioral Activator System</b>	<b>Behavioral Inhibitory System</b>	<b>Threat</b>	<b>Perfectionism</b>	<b>Accountability</b>	<b>Importance of Thoughts</b>	<b>Physical Satisfaction</b>
<b>Behavioral Activator System</b>	1						
<b>Behavioral Inhibitory System</b>	-0.22**	1					
<b>Threat</b>	0.02	-0.04	1				
<b>Perfectionism</b>	0.17**	-0.03	0.36**	1			
<b>Accountability</b>	0.13*	0.04	0.40**	0.51**	1		
<b>Importance of Thoughts</b>	0.15**	-0.27**	0.41**	0.38**	0.41**	1	
<b>Physical Satisfaction</b>	0.20**	-0.26**	0.03	0.14**	-0.01	0.16**	1



**Route Figure 1)** figure of relationship between brain / behavioral systems and obsessive beliefs and physical Satisfaction

**Table 3)** Values of direct effect and path coefficients in the overall model

<b>Effects</b>	<b>Value</b>	<b>t value</b>	<b>Significance Level</b>
<b>Effect of activator system on the threat</b>	-0.04	-0.67	p>0.05
<b>Effect of activator system on perfectionism</b>	0.00	0.06	p>0.05
<b>Effect of activator system on accountability</b>	0.07	1.37	p>0.05
<b>Effect of activator system on the importance of thought</b>	-0.25	-4.86	P<0.05
<b>Effect of activator system on physical satisfaction</b>	-0.20	-3.80	P<0.05
<b>Effect of inhibitory system on threat</b>	0.07	0.19	p>0.05
<b>Effect of inhibitory system on perfectionism</b>	0.17	3.16	P<0.05
<b>Effect of inhibitory system on accountability</b>	0.14	2.64	P<0.05
<b>Effect of inhibitory system on the importance of thoughts</b>	0.09	1.79	p>0.05
<b>Effect of inhibitory system on physical satisfaction</b>	0.13	2.49	P<0.05
<b>Effect of threat on physical satisfaction</b>	-0.02	-0.38	p>0.05
<b>Effect of perfectionism on physical satisfaction</b>	0.15	2.91	P<0.05
<b>Effect of accountability on physical satisfaction</b>	-0.11	-2.28	P<0.05
<b>Effect of importance of thought on physical satisfaction</b>	0.08	1.62	p>0.05

**Table 4)** Indirect effects of external variables and sadistic personality in the path analysis model

<b>Indirect effect</b>	<b>Sobel Z test Value</b>	<b>Standard Error</b>	<b>Significance Level</b>
Effect of activator system on body satisfaction with the mediatory role of threat	1.67	0.02	p>0.05
Effect of activator system on body satisfaction with the mediatory role of perfectionism	2.11	0.03	P<0.05
Effect of activator system on body satisfaction with the mediatory role of accountability	1.73	0.01	p>0.05
Effect of activator system on body satisfaction with the mediatory role of importance of thought	1.19	0.01	p>0.05
Effect of inhibitory system on physical satisfaction with the mediatory role of threat	0.33	0.01	p>0.05
Effect of inhibitory system on physical satisfaction with the mediatory role of perfectionism	0.05	0.01	p>0.05
Effect of inhibitory system on physical satisfaction with the mediatory role of accountability	1.18	0.01	p>0.05
Effect of inhibitory system on physical satisfaction with the mediatory role of importance of thought	1.52	0.02	p>0.05

**Table 5)** Independent T-test. Girls 'and boys' comparison in research variables

<b>Dependent Variable</b>	<b>Test Value</b>	<b>Degree of Freedom</b>	<b>Means Difference</b>	<b>Standard Error</b>	<b>Significance Level</b>
<b>Behavioral Activator System</b>	2.23	356	0.84	0.37	0.026
<b>Behavioral Inhibitory System</b>	-4.35	356	-1.65	0.38	0.000
<b>Threat</b>	3.38	356	1.36	0.40	0.001
<b>Perfectionism</b>	2.61	356	1.24	0.47	0.009
<b>Accountability</b>	2.32	356	0.76	0.32	0.021
<b>Importance of Thoughts</b>	2.31	356	1.03	0.44	0.021
<b>Physical Satisfaction</b>	2.81	356	2.08	0.74	0.005