Investigation of The Relationship Between Social Skills, Emotion Regulation, and Internet Addiction of Middle School Students

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Abstract: This research aimed to investigate the relationship between middle school students' social skills, emotion regulation, and internet addiction. The study included 448 middle school students. The "Internet Addiction Test (IAT)," " The Matson Evaluation of Social Skills with Youngsters (MESSY)," " The Regulation of Emotions Questionnaire (REQ) for Adolescents " and "Socio-Demographic Information Form" were utilized. The data anaylsed with SPSS 25 by Independent Samples T-Test, ANOVA, Multiple Linear Regression and the PROCESS 3.5 macro. Emotion regulation predicts internet addiction. Moreover, a significant relationship was found between social skills and emotion regulation. While positive social behaviors did not predict internet addiction, negative social behaviors showed a prediction. External-dysfunctional and internal-dysfunctional emotion regulation partially mediated the relationship between social skills and internet addiction through negative social behaviors. Also a negative relationship found between parental internet supervision and internet addiction and negative social behaviours. There were positive relationship between parental internet supervision and internal

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emotion regulation. Another result of the study was that no difference was determined in positive and negative social behaviors between girls and boys. This result may be due to the characteristics of the region where the sample is located, or it may be due to the fact that gender roles are fading away today. In general the results reveal that supporting the development of social skills and emotional regulation skills of middle school students' and providing family supervision about internet use to them may be beneficial in preventing internet addiction.

Keywords: Internet addiction, Social skills, Emotion regulation, Middle school student

Ortaokul Öğrencilerinde Sosyal Beceri, Duygu Düzenleme ile İnternet Bağımlılığı Arasındaki İlişkinin İncelenmesi

Özet: Bu çalışmanın amacı sosyal becerileri, duygu düzenleme becerileri ve internet bağımlılığı düzeyleri arasında ilişkinin incelenmesidir. Katılımcılar 448 ortaokul öğrencisinden oluşmaktadır. Araştırmada, 'İnternet Bağımlılık Ölçeği, 'Matson Sosyal Beceri Ölçeği', 'Ergenler İçin Duygu Düzenleme Ölçeği' ve 'Kişisel Bilgi Formu' kullanılmıştır. Veriler IBM SPSS Statistics (25) programı kullanılarak analiz edilmiştir. Verilerin değerlendirilmesinde Bağımsız Örneklemler T-Testi, ANOVA, , Çoklu Lineer Regresyon Analizi ve PROCESS 3.5. macrodan yararlanılmıştır. İnternet bağımlılığı, duygu düzenleme ve sosyal beceriler arasında anlamlı bir ilişki mevcuttur. Duygu düzenleme internet bağımlılığını anlamlı düzeyde yordamaktadır. Ayrıca sosyal beceriler ile duygu düzenleme arasında da anlamlı bir ilişki bulunmuştur. Olumlu sosyal davranışlar internet bağımlılığını anlamlı düzeyde yordamazken, olumsuz sosyal davranışlar anlamlı bir yordayıcılık göstermiştir. Dışsal-işlevsiz ve içsel-işlevsiz duygu düzenleme, olumsuz sosyal davranışlar aracılığıyla sosyal beceriler ile internet bağımlılığı arasındaki ilişkiye kısmen aracılık etmektedir. Ayrıca ebeveyn internet denetimi ile internet bağımlılığı ve olumsuz sosyal davranışlar arasında da olumsuz bir ilişki bulunmuştur. Ebeveyn internet denetimi ile içsel duygu düzenleme arasında pozitif bir ilişki mevcuttur. Çalışmanın bir diğer sonucu kızlar ve erkekler arasında olumlu ve olumsuz sosyal davranışlarda bir farklılaşmanın belirlenmemiş olmasıdır. Bu sonuç örneklemin bulunduğu bölgenin özelliklerinden kaynaklanıyor olabileceği gibi cinsiyet rollerinin günümüzde silikleşiyor olmasından da kaynaklanmış olabilir. Genel olarak sonuçlar, ortaokul öğrencilerinin sosyal becerilerinin ve duygu düzenleme becerilerinin gelişiminin

desteklenmesinin ve internet kullanımı konusunda aile denetiminin sağlanmasının internet bağımlılığının önlenmesinde faydalı olabileceğini ortaya koymaktadır.

Anahtar Kelimeler: İnternet bağımlılığı, Sosyal beceriler, Duygu düzenleme, Ortaokul öğrencisi

Introduction

The Internet is used in almost all areas of life, such as sharing information, communicating, shopping, playing games, messaging, and spending leisure time (Kim et al., 2020). Because of the Internet serves to provide social interaction through online channels, it can decrease the perceptional need for can prevent face-to-face sociability, especially for people with social incapabilities who use avoidant coping strategies and become harmful to the social skills of the individual (Faraji and Tezcan, 2021). Any one can involve in internet addiction (IA) because of easy, fast, cheap, and latest technology (Liu et al., 2020). IA is defined as the desire and inability to prevent excessive use of the Internet, the loss of the value of the time spent without the Internet, the excessive tension and aggression of the person when he does not spend time on the Internet, and the harm in many areas of one's life (Young, 2004).

According to Social Control Theory (Hirschi, 1969), the combination of close ties to traditional social institutions (e.g., family, school) and strong prosocial values reduces the likelihood that individuals will engage in deviant behavior. During adolescence, the control power of the family over the child decreases, and it becomes difficult to restrict the internet activities of adolescents who need individualization. Despite some physical and psychological developments and changes, the adolescent does not yet have sufficient analysis and decision skills and sufficient self-regulation skills. These increase problematic internet usage (Faraji and Tezcan, 2021).

Individuals who cannot easily socialize in real life can freely express their feelings and thoughts on the Internet, which provides the opportunity to show themselves in the way they want to (Eraslan Çapan and Sarıçalı, 2016). The virtual environment, where they can hide their dislikes, is encouraging because they can communicate on issues that they cannot talk face-to-

face. Problematic internet use can negatively affect social relations and social skills accordingly (Çeliker and Aşiroğlu, 2020; Yalçın et al. 2020). Problematic internet use is also predicted by certain social abilities, such as risk coping, empathy and positive emotion skills, and conversation and social ease (Romero-López et al., 2020). Adolescents spend most of their time on the Internet, weakening face-to-face communication, and adolescents may turn to the Internet in order to escape from their daily problems (Arı, 2022). As a result, IA is increasing day by day, and unfortunately, most internet users are adolescents (Bütüner et al, 2022). Middle school students in adolescence are at risk of developing addiction in general and IA in particular, due to the fact that their mental development is not yet completed, the effect of the high hormonal levels of adolescents, and their limited experience (Günlü and Ceyhan, 2022; Machado et al, 2022; Dursun, 2022).

Adolescence is a time when many people's ability to control their emotions substantially improves; for others, however, it can also be the start or development of psychopathology, which is defined by difficulties controlling emotions (Haşimoğlu and Aslandoğan, 2018; Silvers, 2022). Emotion regulation skills (ERS) help adolescents respond to events in a constructive way, meet new people, and be approved by their peers (Sabatier et al, 2017). ERS play a role in the development of nurturing social relationships in adolescence, and the presence of nurturing social relationships also serves as a resource that improves ERS (Silvers, 2022). Adolescents with low ERS use the Internet in order to suppress their negative emotions or to escape from these emotions (Yu et al., 2013). At this point, increased internet use can serve as an escape from negative emotions experienced as a result of both lack of emotional regulation skills and lack of social skills.

Examining the causes of intense and excessive internet use among internet users and how these emotions are regulated is essential for developing effective interventions for IA. This study investigates social skills and emotion regulation, which is thought to be related to IA in adolescence, which refers to the developmental period of middle school students. The literature shows that difficulties in social skills and emotion regulation (ER) are associated with the development and prevalence of addiction-related problems (Karaer and Akdemir, 2019; Ohahanyohe Odije et al, 2023;She et al, 2023). The main hypothesis of the study is that

social skills plays a mediating role between ERS and IA. The results of this study are believed to have the potential to highlight for clinicians working with adolescents the significance of psychotherapeutic interventions that focus on social skills and emotional regulation issues in order to counteract maladaptive internet use in the context of IA issues.

Method

Participants

Middle school students in Istanbul will represent the population of this research. Sample selection was made using the convenience sampling method. The sample group will consist of students who are enrolled in middle schools in the Bağcılar district of Istanbul province during the 2021-2022 academic year. Due to the population being over 100,000, a sample size of 384 is sufficient to represent the population with a margin of error of 0.05 and a confidence interval of 95% (Ural and Kılıç, 2013).

Data Collection Instruments

The research was used to employ the Socio-Demographic Information Form, Internet Addiction Test (IAT), The Matson Evaluation of Social Skills with Youngsters (MESSY), and The Regulation of Emotions Questionnaire (REQ) for Adolescents.

Socio-Demographic Information Form

This form includes questions about socio-demographic information such as class level, gender, daily usage time, and parental supervision of internet usage of the individuals involved in the research.

Internet Addiction Test (IAT)

Developed by Young and adapted to Turkish by Bayraktar (Young 1998; Bayraktar, 2001). The scale consists of 20 items and uses a 6-point Likert scale. Ratings range from '0' for "Never" to '5' for "Always." The total score ranges from 0 to 100. Scores of 80 and above are defined as "Pathological Internet Users," scores between 50 and 79 as "Limited Symptom Users," and scores below 50 as "Non-Symptomatic Users". The scale, which was translated

from English into Turkish by Bayraktar (2001) within the framework of the research objectives, was examined by five members of the academic staff of Ege University, Faculty of Letters, Department of Psychology and the questions were adapted in a way not to disturb the integrity of meaning. The reliability of the translated test in terms of standardised alpha value. 91 and Spearman-Brown value. 87 in terms of Spearman-Brown value. Cronbach's Alpha value in this study determined as .805.

The Matson Evaluation of Social Skills with Youngsters (MESSY)

Developed by Matson, Rotatory, and Hessel, the Turkish adaptation of the scale was done by Bacanlı and Erdoğan (Matson et al.,1983; Bacanlı and Erdoğan, 2003). As a result of the factor analysis, it was seen that the items of the scale were gathered in two factors different from the original. Items with factor loadings lower than .30 were removed and the final version of the scale with 47 items was obtained. It was seen that the first of the obtained factors included the negative behaviour expressions in MESSY. Therefore, factor 1 was named as Negative Social Behaviours. Since it was seen that the positive behaviour statements in MESSY were collected in the second factor, factor II was named as Positive Social Behaviours. The reliability of the test was calculated with the repetition method. The correlation between the total scores obtained from the first administration of MESSY and the total scores obtained from the second administration was found to be $r = .77$ (p .01). In the subscales, the reliability coefficients were found as $r = .70$ (p .01) in the Negative Social Behaviours subscale and $r = .74$ (p .01) in the Positive Social Behaviours subscale. These findings show that the test-retest reliability of MESSY is statistically adequate. Item analysis was conducted to calculate the internal consistency of the scale. As a result of the analysis, item-total correlations of 41 items were found to be above .30. The total correlations of the remaining 7 items ranged between .15 and .29. The internal consistency coefficient of the scale was found as Alpha= .85. The internal consistency coefficient was Alpha= .68 for the Negative Social Behaviours subscale and Alpha= .74 for the Positive Social Behaviours subscale. The scale seems to have an internal consistency coefficient that can be considered sufficient. The scale was found to be valid and reliable. In this study, Cronbach's Alpha value was found to be .78.

The Regulation of Emotions Questionnaire (REQ) for Adolescents

Developed by Phillips and Power to assess adolescents' ER methods, the Turkish adaptation and reliability-validation study was conducted by Duy and Yıldız (Phillips and Power, 2007; Duy and Yıldız, 2014). Before the principal component analysis was performed on the data obtained from 899 participants, the KMO value (.79) and Bartlett Sphericity Test ($\chi2$ = 3620.323, sd= 153, p< .000) values indicating the adequacy of the sample were examined and it was seen that the values obtained were adequate. The analysis was continued by using varimax vertical rotation technique and as a result, it was found that all items except one item in the original form of the 19-item BCAS were collected in the factors to which they belonged and the scale consisted of four factors as in the original form. The first sub-dimension of the scale consists of five items with factor loadings ranging between .53 and .77. The second sub-dimension consists of five items with factor loadings ranging between .57 and .67. The third sub-dimension consists of four items with factor loadings ranging between .50 and .85. The fourth sub-dimension consists of four items with factor loadings ranging between .55 and .76. When the fit indices obtained as a result of CFA applied to test the model with four latent variables consisting of 18 items were examined, RMSEA= .06, RMR= .09, SRMR= .06, GFI= .94, AGFI= .92, CFI= .93, NFI= .91 and NNFI= .92 were found. The scale consists of four subscales: internal functional, external functional, internal dysfunctional, and external dysfunctional emotion regulation. Duy and Yıldız found test-retest reliability coefficient as 0.51 for the internal functional emotion regulation (IFER) subscale; 0.70 for the external dysfunctional emotion regulation (EDER) subscale, 0.56 for the internal dysfunctional emotion regulation (IDER) sub-dimension and 0.52 for the external functional emotion regulation (EFER) sub-dimension (Duy and Yıldız, 2014). In this study, Cronbach's Alpha value was 0.808.

Data Analysis

All analyses related to the data were performed using SPSS 25. Prior to analysis, the assumption of normal distribution of the scales was checked by examining skewness and kurtosis values, which were found to be within the -3 to +3 range (Kline, 2011). Consequently, parametric tests were preferred.

To examine the relation between the variables, Pearson correlation analysis was employed. Independent Independent samples t-test and ANOVA were used to compare scale scores based on demographic variables. Model 4 was selected with PROCESS 3.5 macro and mediation analysis was conducted. Lastly, a confidence interval of 95% and a p-value of 0.05 were used as references for this research.

The skewness value of the internet addiciton scale is 0.772 and kurtosis value is 0.372. The skewness value of the IFER is -0.740 and kurtosis value is 0.603. The skewness value of the EDER is 1.279; and kurtosis value is 1.385. The skewness value of the IDER 0.411; and kurtosis value is -0.519. The skewness value of the EFER is -0.196 and kurtosis value is -0.346. The skewness value of the NSB is 1.190 and kurtosis value is 2.134. The skewness value of the PSB is -0.850 and kurtosis value is 0.255.

Results

Table 1. Demographic Characteristics of Participants

		n	%
Gender	Female	224	50.0
	Male	224	50.0
	Total	448	100.0
Grade Level	5th Grade	95	21.2
	6th Grade	103	23.0
	7th Grade	131	29.2
	8th Grade	119	26.6
	Total	448	100.0
Parental Internet Supervision	Never	32	7.1
	Sometimes	163	36.4
	Often	142	31.7
	Always	111	24.8
	Total	448	100.0

Fifty percent of the participants are female, and fifty percent are male. Twenty-one point two percent are in the 5th grade, twenty-three percent in the 6th grade, twenty-nine point two percent in the 7th grade, and twenty-six point six percent in the 8th grade. When asked about parental internet supervision, seven point one percent indicated that their families never supervise their internet usage, thirty-six point four percent indicated sometimes, thirty-one point seven percent indicated often, and twenty-four point eight percent indicated always.

Table 2. Distribution of Participants Based on Internet Addiction Levels

		N	**%**
Internet Addiction Level	Average Internet User	404	90.2
	Risky Internet Usage	42	9.4
	Internet Addiction	2	0.4
	Total	448	100.0

Considering the findings in Table 3, 90.2% of the participants were average internet users, 9.4% were risky internet users, and 0.4% were internet addicts.

Table 3. Descriptive Values of Internet Addiction Test (IAT), The Regulation of Emotions Questionnaire for Adolescents, and The Matson Evaluation of Social Skills with Youngsters (MESSY)

	N	**Min**	**Max**	**Range**	$\overline{X}$	**Sd.**	**Variance**
Internet Addiction Test (IAT)	448	0	85	85	27.46	15.88	252.02
The Regulation of Emotions Questionnaire for Adolescents							
Internal Functional Emotion Regulation (IFER)	448	4	20	16	15.18	3.34	11.14
External Dysfunctional Emotion Regulation (EDER)	448	5	23	18	8.25	3.44	11.82
Internal Dysfunctional Emotion Regulation (IDER)	448	5	25	20	12.25	4.73	22.36
External Functional Emotion Regulation (EFER)	448	4	20	16	11.82	3.33	11.12
The Matson Evaluation of Social Skills with Youngsters (MESSY)							
Negative Social Behaviors (NSB)	448	23	96	73	39.43	11.51	132.55
Positive Social Behaviors (PSB)	448	54	120	66	97.48	13.91	193.44

The mean for Internet Addiction Test ($\overline{X}$=27.46, Sd.=15.88), IFER ($\overline{X}$=15.18, Sd.=3.34), EDER ($\overline{X}$=8.25, Sd.=3.44), IDER ($\overline{X}$=12.25, Sd.=4.73), EFER ($\overline{X}$=11.82, Sd.=3.33), NSB ($\overline{X}$=39.43, Sd.=11.51), and PSB ($\overline{X}$=97.48, Sd.=13.91) are provided in Table 4.

2.1.Correlation Analysis:

In this section, a Pearson Correlation Analysis was conducted to examine the relationships between variables. The results of the findings are presented in Table 4.

Table 4. Relationships Among Internet Addiction, Emotion Regulation, and Social Skills

	1	2	3	4	5	6	7
1- IA	1						
2- IFER	-.095*	1					
3- EDER	.527**	-.183**	1				
4- IDER	.432**	0.048	.424**	1			
5- EFER	.177**	.305**	-0.024	.121*	1		
6- NSB	.488**	-.236**	.690**	.504**	-0.006	1	
7- PSB	-.158**	.302**	-.206**	-.103*	.410**	-.324**	1

**p<0.01, *p<0.05 Test Applied: Pearson Correlation Test

IA: Internet Addiction Scale, IFER: Intrinsic Functional Emotion Regulation, EDER: External Dysfunctional Emotion Regulation, IDER: Intrinsic Dysfunctional Emotion Regulation, EFER: External Functional Emotion Regulation, NSB: Negative Social Behaviors, PSB: Positive Social Behaviors

The Internet Addiction and IFER showed a low-level negative correlation (r=-.095, p<0.05). The EDER and Internet Addiction showed moderate positive correlations (r=.527, p<0.01), the IDER and Internet Addiction showed moderate positive correlations (r=.432, p<0.01), and the EFER and Internet Addiction showed a low-level positive correlation (r=.177, p<0.01). The Internet Addiction and NSB showed a moderate positive correlation (r=.488, p<0.01), while PSB and the Internet Addiction Test showed a low-level negative correlation (r=-.158, p<0.01)..

Finally, a moderate positive correlation (r=.410, p<0.01) was identified between PSB and EFER. Additionally, there was a moderate positive association (r=.302, p<0.01) between PSB and IFER and a low-level negative correlation (r=-.236, p<0.01) between NSB and IFER. Additionally, a low-level negative corelation (r=-.206, p<0.01) was discovered between PSB

and EDER, while a significant positive correlation (r=.690, p<0.01) was detected between NSB and EDER.

Furthermore, a low-level negative association (r=-.103, p<0.05) was discovered between PSB and IFER, while a substantial positive correlation (r=.504, p<0.01) was noted between negative social behaviors and IFER. Lastly, a moderately positive connection between PSB and EFER was found (r=.410, p<0.01).

4.2. Comparison Analysis

In this section, Independent Samples t-test, ANOVA test were conducted to compare the scores obtained from the Internet Addiction Test, The Regulation of Emotions Questionnaire for Adolescents, and The Matson Evaluation of Social Skills with Youngsters (MESSY)based on demographic variables. The results of the findings are presented in Tables 5 to 7.

Table 5. Comparison of Internet Addiction, Regulation of Emotions for Adolescents, and The Social Skills by Gender

		n	$\overline{X}$	SD	t	Df.	p
IA	Female	224	24.89	14.70	-3.46	446	0.001*
	Male	224	30.02	16.61			
IFER	Female	224	15.47	3.00	1.85	431.133	0.066
	Male	224	14.89	3.62			
EDER	Female	224	8.21	3.39	-0.26	446	0.794
	Male	224	8.29	3.49			
IDER	Female	224	13.03	5.00	3.53	436.522	0.000*
	Male	224	11.47	4.31			
EFER	Female	224	11.86	3.41	0.21	446	0.832
	Male	224	11.79	3.26			
Negative Social Behaviors	Female	224	39.47	11.03	0.07	446	0.941
	Male	224	39.39	12.00			
Positive Social Behaviors	Female	224	97.30	14.15	-0.27	446	0.786
	Male	224	97.66	13.69			

p<0.05 Test Used: Independent Samples t-test

IA: Internet Addiction Scale, IFER: Intrinsic Functional Emotion Regulation, EDER: External Dysfunctional Emotion Regulation, IDER: Intrinsic Dysfunctional Emotion Regulation, EFER: External Functional Emotion Regulation, NSB: Negative Social Behaviors, PSB: Positive Social Behaviors

For the subdimensions IFER, EDER, EFER, NCB and PCB no significant differences were observed among the groups based on gender (p>0.05).

When examining the scores obtained from the Internet Addiction Test (t(446)=-3.46, p<0.05) in relation to gender, a significant difference was found among the groups. Comparing the means, it can be seen that males have higher scores compared to females.

For the subdimension IDER (t(436.522)=3.53, p<0.05), significant differences were found among the groups based on gender. Comparing the means, it can be seen that females scored higher than males.

Table 6. Comparison of Internet Addiction, Regulation of Emotions, and Social Skills by Grade Level

		N	$\bar{X}$	SD	Variance	S.S	Df.	M.S	F	p
IA	5th Grade	95	24.37	14.58	Between groups	2989.37	3	996.46	4.03	0.008*
	6th Grade	103	25.91	14.86	Within groups	109663.83	444	246.99		
	7th Grade	131	31.19	17.47	Total	112653.19	447			
	8th Grade	119	27.15	15.27						
	Total	448	27.46	15.88						
IFER	5th Grade	95	15.19	3.76	Between groups	13.65	3	4.55	0.41	0.748
	6th Grade	103	15.21	3.27	Within groups	4965.34	444	11.18		
	7th Grade	131	14.95	3.52	Total	4978.99	447			
	8th Grade	119	15.41	2.82						

	Total	448	15.18	3.34					
EDER	5th Grade	95	7.42	2.74	Between groups	125.85	3	41.95	3.61	0.013*
	6th Grade	103	8.15	3.55	Within groups	5159.65	444	11.62		
	7th Grade	131	8.92	3.70	Total	5285.50	447			
	8th Grade	119	8.25	3.44						
	Total	448	8.25	3.44						
IDER	5th Grade	95	10.73	4.16	Between groups	490.38	3	163.46	7.63	0.000*
	6th Grade	103	11.48	4.43	Within groups	9506.11	444	21.41		
	7th Grade	131	13.28	4.81	Total	9996.50	447			
	8th Grade	119	13.01	4.94						
	Total	448	12.25	4.73						
EFER	5th Grade	95	12.19	3.46	Between groups	92.76	3	30.92	2.81	0.039*
	6th Grade	103	11.44	3.15	Within groups	4878.31	444	10.99		
	7th Grade	131	12.33	3.10	Total	4971.07	447			
	8th Grade	119	11.31	3.56						
	Total	448	11.82	3.33						
NSB	5th Grade	95	35.47	8.91	Between groups	2179.67	3	726.56	5.65	0.001*
	6th Grade	103	39.40	12.31	Within groups	57070.04	444	128.54		
	7th Grade	131	41.60	11.33	Total	59249.71	447			
	8th Grade	119	40.22	12.16						

	Total	448	39.43	11.51						
PSB	5th Grade	95	100.68	12.94	Between groups	1497.87	3	499.29	2.61	0.051
	6th Grade	103	95.67	13.30	Within groups	84969.91	444	191.37		
	7th Grade	131	97.69	14.05	Total	86467.78	447			
	8th Grade	119	96.25	14.70						
	Total	448	97.48	13.91						

p<0.05 Test Used: One-Way Analysis of Variance (ANOVA)

IA: Internet Addiction Scale, IFER: Intrinsic Functional Emotion Regulation, EDER: External Dysfunctional Emotion Regulation, IDER: Intrinsic Dysfunctional Emotion Regulation, EFER: External Functional Emotion Regulation, NSB: Negative Social Behaviors, PSB: Positive Social Behaviors

For the subdimensions, IFER, positive social behaviors and grade level did not result in significant differences among the groups (p>0.05).

When examining the scores obtained from the IA (F(3.444)=4.03, p<0.05) in relation to grade level, significant differences were found among the groups. Evaluating the Tukey results, it can be seen that students in 7th grade scored higher than those in 5th grade.

For the subdimension EDER (F(3.444)=3.61, p<0.05), significant differences were found among the groups based on grade level. Evaluating the Games-Howell results, students in 7th grade scored higher than those in 5th grade.

For the subdimension IDER (F(3.444)=7.63, p<0.05), significant differences were found among the groups based on grade level. Evaluating the Tukey results, students in 7th grade scored significantly higher than those in 5th and 6th grades, and students in 8th grade scored higher than those in 5th grade.

For the subdimension EFER (F(3.444)=2.81, p<0.05), significant differences were found among the groups based on grade level. Evaluating the Tukey results, students in 7th grade scored higher than those in 8th grade.

For the subdimension negative social behaviors (F(3.444)=5.65, p<0.05), significant differences were found among the groups based on grade level. Evaluating the Games-Howell results, students in 7th and 8th grades scored higher than those in 5th grade.

Table 7. Comparison of Internet Addiction, Regulation of Emotions, and Social Skills with by Parental Internet Supervision

		n	$\overline{X}$	SD	Var. K.	S.S	Df.	M.S	F	p
IA	Never	32	34.47	17.14	Between groups	2919.71	3	973.24	3.94	0.009*
	Sometimes	163	27.74	15.57	Within groups	109733.49	444	247.15		
	Often	142	28.18	15.74	Total	112653.19	447			
	Always	111	24.09	15.49						
	Total	448	27.46	15.88						
IFER	Never	32	14.66	3.60	Between groups	117.42	3	39.14	3.57	0.014*
	Sometimes	163	14.63	3.31	Within groups	4861.57	444	10.95		
	Often	142	15.42	3.16	Total	4978.99	447			
	Always	111	15.86	3.40						
	Total	448	15.18	3.34						
EDER	Never	32	9.13	4.05	Between groups	55.64	3	18.55	1.57	0.195
	Sometimes	163	8.45	3.24	Within groups	5229.86	444	11.78		
	Often	142	8.18	3.23	Total	5285.50	447			
	Always	111	7.78	3.75						
	Total	448	8.25	3.44						
IDER	Never	32	14.66	4.64	Between groups	392.67	3	130.89	6.05	0.000*
	Sometimes	163	12.82	5.00	Within groups	9603.83	444	21.63		
	Often	142	11.95	4.29	Total	9996.50	447			
	Always	111	11.12	4.56						

	Total	448	12.25	4.73						
EFER	Never	32	11.84	3.20	Between groups	19.83	3	6.61	0.59	0.620
	Sometimes	163	11.80	3.18	Within groups	4951.24	444	11.15		
	Often	142	11.59	3.23	Total	4971.07	447			
	Always	111	12.15	3.73						
	Total	448	11.82	3.33						
NSB	Never	32	45.41	15.88	Between groups	2220.55	3	740.18	5.76	0.001*
	Sometimes	163	40.70	10.13	Within groups	57029.16	444	128.44		
	Often	142	38.61	10.34	Total	59249.71	447			
	Always	111	36.88	12.61						
	Total	448	39.43	11.51						
PSB	Never	32	92.72	15.12	Between groups	1500.05	3	500.02	2.61	0.051
	Sometimes	163	96.36	14.06	Within groups	84967.73	444	191.37		
	Often	142	98.16	13.39	Total	86467.78	447			
	Always	111	99.61	13.68						
	Total	448	97.48	13.91						

p<0.05 Test Used: One-Way Analysis of Variance (ANOVA)

IA: Internet Addiction Scale, IFER: Intrinsic Functional Emotion Regulation, EDER: External Dysfunctional Emotion Regulation, IDER: Intrinsic Dysfunctional Emotion Regulation, EFER: External Functional Emotion Regulation, NSB: Negative Social Behaviors, PSB: Positive Social Behaviors

For the subdimensions EDER, EFER, and positive social behaviors, no significant differences were observed among the groups based on parental internet supervision (p>0.05).

When examining the scores obtained from the IA (F(3.444)=3.94, p<0.05) in relation to parental Internet supervision, significant differences were found among the groups. Evaluating the Tukey results, it can be seen that individuals who are never supervised by their parents in internet usage scored higher than those who are always supervised.

For the subdimension IFER (F(3.444)=3.57, p<0.05), significant differences were found among the groups based on parental internet supervision. Evaluating the Tukey results, individuals who are always supervised scored higher than those who are sometimes supervised.

For the subdimension IDER (F(3.444)=6.05, p<0.05), significant differences were found among the groups based on parental internet supervision. Evaluating the Tukey results, individuals who are never supervised scored significantly higher than those who are sometimes and often supervised, and those who are sometimes supervised scored higher than those who are always supervised.

For the subdimension NSB (F(3.444)=5.76, p<0.05), significant differences were found among the groups based on parental internet supervision. Evaluating the Games-Howell results, individuals who are sometimes and never supervised scored higher than those who are always supervised.

2.3. Mediator Role Analysis

In this section, the PROCESS 3.5 macro was employed to examine the role of the mediator variable in the relationship between the independent and dependent variables. The results of the findings are presented in Tables 8 and 9.
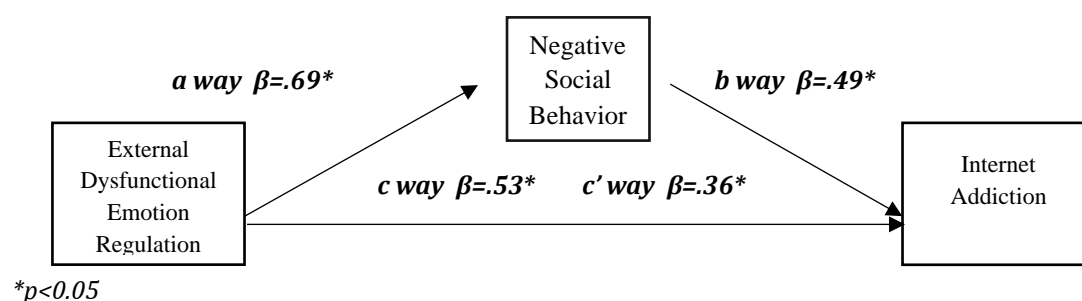
Table 8. Results of the Mediating Role of Negative Social Behaviors in the Prediction of Internet Addiction by External Dysfunctional Emotion Regulation

Model		*R*	*R²*	*B*	*SE*	*B*	*T*	*P*	Lower Bound	Upper Bound
1	**(Constant)**	.29	.27	7.40	1.66		4.46	0.000*	4.14	10.66
	EDER			2.43	0.19	0.53	13.09	0.000*	2.07	2.80
2	**(Constant)**	.36	.30	0.72	2.23		0.32	0.746	-3.67	5.12
	EDER			1.68	0.25	0.36	6.66	0.000*	1.18	2.17
	NSB			0.33	0.08	0.24	4.36	0.000*	0.18	0.48
	Indirect Total Effect (Mediator)			0.76	0.22				0.34	1.18

*p<0.05 Test Applied: PROCESS 3.5

Based on the results in the table, it is observed that in the first model, EDER, an independent variable, explains 27% of the variance in the dependent variable, which is the IA Test score. In the second stage, NSB are included in the model as an independent variable. NSB an independent variable, explain 3% of the variance in the dependent variable. According to the findings, EDER and NSB together explain 30% of the variance in the dependent variable. The beta value of EDER decreases from .53 to .36 after adding the independent variable of NSB in the second stage. To further assess this decrease, a bootstrapping analysis was conducted with 5000 resamples and a 95% confidence interval option. The results indicated that the lower and upper bounds did not include 0. Consequently, it was determined that there is a partial mediation according to the findings of the mediator role analysis.
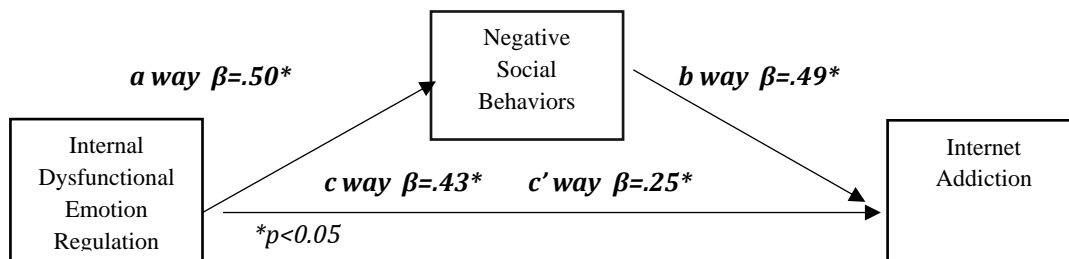

*p<0.05

Figure 1. Beta Coefficients for the Mediating Role of Negative Social Behaviors in the Prediction of Internet Addiction by External Dysfunctional Emotion Regulation

Table 9. Results of the Mediating Role of Negative Social Behaviors in the Prediction of Internet Addiction by Internal Dysfunctional Emotion Regulation

Model		R	R²	B	SE	β	T	P	Lower Bound	Upper Bound
	(Constant)	.29	.18	9.67	1.88		5.14	0.000*	5.97	13.37
1	**IDER**			1.45	0.14	0.43	10.13	0.000*	1.17	1.73
	(Constant)	.36	.28	-2.50	2.36		-1.06	0.291	-7.13	2.14
	IDER			0.84	0.16	0.25	5.38	0.000*	0.53	1.15
2	**NSB**			0.50	0.06	0.36	7.79	0.000*	0.37	0.62
	Indirect Total Effect (Mediator)			0.61	0.12				0.39	0.86

*p<0.05 Test Applied: PROCESS 3.5

Based on the results in the table, it is observed that in the first model, IDER, an independent variable, explains 18% of the variance in the dependent variable, which is the Internet

Addiction Test score. In the second stage, NSB are included in the model as an independent variable. NSB, explain 10% of the variance in the dependent variable. According to the findings, IDER and negative social behaviors together explain 28% of the variance in the dependent variable. The beta value of IDER decreases from .43 to .25 after adding the independent variable of negative social behaviors in the second stage. Similarly, bootstrapping analysis was performed with 5000 resamples and a 95% confidence interval option, revealing that the lower and upper bounds did not include 0. As a result, partial mediation was determined according to the findings of the mediator role analysis.

Figure 2. Beta Coefficients for the Mediating Role of Negative Social Behaviors in the Prediction of Internet Addiction by Internal Dysfunctional Emotion Regulation

Discussion and Conclusion

The aim of this research was to examine the relationship between IA, social skills, and ERS. It was found that 9.4% of the students were at risk of IA, and only 0.4% were identified as internet addicts. The prevalence of IA in adolescents has been reported as 1-9% in European countries, 2-18% in Asian countries, and 1-12% in Middle Eastern countries (Warthberg et al., 2017). Although the results are surprising due to the widespread use of the Internet and the high Internet usage among middle school students, it is believed that the data might have been affected by collecting information from healthy individuals in a school environment, which could lead to underreporting of internet usage frequency and duration, resulting in lower rates of IA. Additionally, the low prevalence of IA may be attributed to the fact that students predominantly use internal functional ERS and external non-functional ERS to a lesser extent. Similar findings have been reported (Atalay and Özyürek, 2021). Similarly, Liang et al. also stated that non-functional ERS are effective in IA (Liang et al., 2021).

The main hypothesis of the study was that social skills plays a mediating role between ER and IA and it verified. Results showed that negative social behaviors play a mediating role between both internal dsyfuntional ERS and IA and also between external dsyfuntional ERS and IA. External resources that can be used to regulate emotions that cannot be internally regulated include two groups. The first one is closely related to social skills and includes; social support systems, self expression and the second group is addictive substances. In this regard, individuals' weak social support skills will reduce their access to harmonious external ERS and will open the door to various addictions (Maniaci et al., 2017; Eker and Taş, 2022; Weiss et al., 2022). But regards to its cheap and easily accessible nature it's easier to become addicted to the internet especially in younger ages when the individual has financial dependency to family. Based on the research findings, ERS, and social skills were found to be predictors of IA in middle school students. In middle school students, IA was negatively related to internal functional ER. The negative relationship between IA and internal functional ER suggests that individuals may use the Internet as an external resource to distance themselves from negative emotions. Individuals with lower ERS may use the Internet mainly to alter their moods, which could lead to addiction (Villani et al., 2018; Amendola et al., 2019; Salek Ebrahimi et al., 2019; Ateş and Sağar, 2021; Quaglieri et al., 2021). Additionally, the research findings of Sağar and Özçelik (2022), which show a negative relationship between internet-related social media addiction and internal functional ER, support these results. Also external dysfunctional emotin reguulation has a positive relationship with IA.

This study show that increase in external functional ER is raleted with increase in IA. ER difficulties play a role in the development of IA (Budak, 2017; Ateş and Sağar, 2021). The positive relationship between external functional ER and IA is contrary to what was expected. This situation might be explained by the use of the Internet for accessing social support networks like in hikikomori syndrome (Faraji and Tezcan, 2021). Hikikomori syndrome used to refer to young people who increasingly live on their own, have exaggerated internet use, and have very limited social contacts than those mediated through online networking (Kato et al., 2018). Similarly, in the study by Ercengiz and Şar, a positive relationship was found between external functional ER and IA (Ercengiz and Şar, 2017). They suggest that this result may be due to the questions in the emotion regulation scale's external functional subscale

covering social support. Koo and Kwon similarly argue that in the relationship between IA and ER, individuals often obtain external ER through the Internet quickly and easily (Koo and Kwon, 2014). Additionally, Chen et al. (2016) have expressed that as ER difficulties increase, individuals' mobile phone usage also increases.

In the research, there is a negative relationship between middle school students' levels of IA and positive social behaviors and a positive correlation between NSB. Social skills are worse among students who are more addicted to the internet. These research findings align with the existing literature (Ercengiz and Şar, 2017; Aslan et al., 2022; Arslan and Taş, 2022). However, Duran Okur and Özkul (2015) found that the rise in IA is paralel with rise in social skills which they explained by the positive contribution of the Internet to social communication. Additionally, Xu, Turel, and Yuan (2012) stated that adolescents turn to the Internet for the purpose of socializing. The Internet also offers individuals the option of anonymity, making them feel safer (Khatcherian et al., 2022).

In the research, social behaviors were found to be positively related with functional and negatively related with non-functional ER (both internal and external functional).Similarly, negative social behaviors were positively correlated with internal and external non-functional ER and negatively correlated with internal functional ER, supporting these relationships. Duy and Yıldız (2014) found similar results, reporting higher degree of social behaviors related with lower degrees of dysfunctional ER higher degrees of functional ER. Meyer et al. (2014) stated that children with coping skills for emotions display more positive social behaviors. ER plays an important role in supporting positive social behavior (Blair et al., 2015). Adolescents' ERS positively affect social skills as they enable them to understand the emotions of others. In addition, adolescents with positive social skills can improve their emotional regulation skills when they engage in positive social behaviors (Laghi et al., 2018). Adolescents who possess ERS tend to be successful in their social relationships, whereas those who cannot control their emotions may experience social difficulties (Duman et al., 2019). In the research, male students were found to have higher levels of IA compared to female students. This could be attributed to the fact that males tend to use the Internet more for social networking, gaming, and watching videos, and they may prefer spending more time

alone, which they can do online. These factors might contribute to the higher level of IA observed among males (Anlayışlı and Bulut Serin, 2019). There are similar studies which found that males have higher levels of IA compared to females (Fumero et al., 2018; Hassan et al., 2020; Pan et al., 2020). In the research, it was found that there is no significant difference between male and female students' social skill levels. Some studies in the literature support this result (Matson et al., 1986; Arı and Yaban, 2016; Çepikkurt and Fındık, 2017; Pala Özçelik, 2020). Both girls and boys in middle school experience similar problems, such as feeling misunderstood by others and peer bullying, which might be the reason for the lack of differentiation. Additionally, factors such as family gender attitudes and cultural differences are also believed to influence the results. However, there are also studies in the literature that contradict the findings of this research (Yavuzarslan Gök, 2017; Arslan and Taş, 2022). These studies suggest that women have higher social skill levels compared to men. They attribute this difference to women being more outgoing in their social lives than men. Furthermore, the fact that women tend to seek emotional support by communicating with their environment might explain why their social skills levels are higher than men's (Arslan and Taş, 2022).

This research indicated that girls have higher degrees of internal non-functional ER. Çolak (2020) has similar findings. This is believed to be due to girls' tendency for rumination and overthinking. Additionally, it is thought to stem from girls' inclination towards introversion and internalizing their emotions during adolescence. Supporting findings can be found in the literature (Şenel and Çakmak Tolan, 2022). Taking into account societal gender roles, it is believed that anxiety and internalizing behaviors are more pronounced in females, which may explain the higher use of internal non-functional ER. Hughes and Gullone (2011) explain this difference by girls sharing their emotions and thoughts more with others. There are also studies which found no difference about ER by gender (Budak 2017; Bozkurt-Yükçü and Demircioğlu, 2017; Haşimoğlu and Aslandoğan, 2018). This result is explained by the level of education, conscious parents, and pre-school education. Also the cultural background of Turkey might have affected the NFER of the girls. Turkey belongs to a collectivist and patriarchal culture. A cultural background like that creates a tendency for self silencing and internalizing (Kaya and Çok, 2021). This perceived as the root which lies behind NFER of the girls.

This study found that IA degress differ by grade level. IA levels were highest among 7th-grade students, followed by 8th-grade, 6th-grade, and 5th-grade students. Similar studies in the literature have also shown differences in IA levels based on grade levels (Karabulut, 2019; Ünlü and Çeviker, 2022). The higher internet usage among 7th-grade students compared to 8th-grade students is believed to be related to the fact that 8th-grade students are in their exam year. Additionally, the increasing prevalence of mobile phones with age and reduced parental control may also contribute to this difference.

Current study showed that negative social skill levels differ by grade level. This finding aligns with the studies by Aslan, Başcıllar, Karataş (2022) and Duran Okur and Özkul (2015), which suggest that negative social behaviors increase with age. However, Çetin and Alkan Ersoy (2017) said there is no difference between age and social skills but found that 8th-grade students had higher scores in negative social skills than students in other grade levels. Among the grades, 7th-grade students had the highest negative social behaviors scores. This may be attributed to the students strengthening their relationships over the course of four years, experiencing common issues together, and feeling a sense of attachment due to graduation or separation. In contrast to this research, Pala Özçelik (2020) suggests that social skills increase with age and grade level.

This study indicated that external functional, external non-functional, and internal non-functional ER differs by grade level. When examining the groups where this difference exists, it was observed that external non-functional ER differs between 7th-grade and 8th-grade students, while internal non-functional ER differs between 5th-grade and 7th-grade, 5th-grade and 8th-grade, and 6th-grade and 7th-grade students. 7th-grade students scored higher in internal non-functional and external non-functional ER, followed by 8th-grade, 6th-grade, and 5th-grade students. However, some studies, like Haşimoğlu and Aslandoğan (2018), did not find significant differences between ER and grade level. This is consistent with research supporting that emotional regulation increases with age (Theurel and Gentaz, 2018). On the other hand, in the study of Zimmermann and Iwanski (2014), there was a decrease in adolescents' strategies in middle adolescence (13-15 years old) compared to early or late

adolescence indicates that it tends to show. It can be explained by emotional difficulties and conflicts with parents during this period.

In the research, it was found that IA levels of middle school students differ by how their parents monitor their internet usage. Students whose internet usage is never monitored by their parents have higher IA scores compared to those whose internet usage is continuously monitored. Unsupervised adolescents may be more prone to engage in risky behaviors, making parental control important in preventing IA (Yüksel et al., 2020; Özaltın et al., 2022; Moçoşoğlu and Yorulmaz, 2023).

This research found students' social skill levels differ their parents' supervision of internet usage. Internet usage and IA and also internal functional ER and internal non-functional ER differ by parental supervision. The increase in parental supervision is associated with decrease in negative social behaviors. Adolescents with more parental supervision exhibit superior prosocial, communicative, and emotional control abilities (Brajša-Žganec, 2019). But overcontrol of the adolescent by his parents leads to low self regulation (Moilanen and Lynn Manuel, 2019). Similarly Chen and Fan (2024) showed that being so strict about the internet usage time increase problematic internet usage for adolescents while restrictions on content viewed online reduced chances of problematic internet usage for these adolescents. It is assumed that because they lack self-regulation, unsupervised teenagers may spend more time online. Furthermore, during adolescence, when withdrawal tendencies are prevalent, unsupervised adolescents may turn to the Internet to fulfill their emotional needs, which could contribute to higher scores in internal non-functional ER. It is also suggested that adolescents may predominantly use internal functional and internal non-functional ER strategies (Kılınç and Önder, 2019). Adolescence is a period of boundary problems. That's why parental control is important in preventing IA. Similarly, in Martin's et al. (2020) study, IA was less common in adolescents under parental control.

The results of the study showed that social skills play a mediating role between emotion regulation and IAS. It indicates that when lack of emotion regulation ability meet with unefficient social skills adolescents spent more time on internet. The study also indicates that external functional emotion regulation and IA are related. This result shows internet is

not totally evil and sometimes people use it as a facilitator to reach some social support for regulating their emotions. Another prominent result of the study is the good enogh supervision of parents, limiting time and cites to protect child without being too authoritarian, enables them to have internal emotion regulation abilities and also protects them from negative social behaviours and IA.

The suprizing result of the study is that there wasn't any significant difference between boys and girls negative social behaviors. It is suprizing because of the cultural background of Turkey do not permits girls to act in a manner which might have perceived as nasty or immoral. While girls are receiving punishment when they cross boundries on the contrary boysa draw applause and seen as being funny or brave. With all this this results might occured because of the Bağcılar's population's micro culture which is a outskirt district of Istanbul/Turkey. In slums where poverty and low education levels prevail, the obligation of girls to be gentle and sweet is loosened and negative masculine behaviors, highlighted by the emphasis on being strong on the axis of the primitive survival instinct, prevail. Also another root of this result might be the change in the gender roles made the distinction between expected social behaviours between boys and girls disappearing.

The research was conducted with 448 students studying in public schools in Bağcılar district of Istanbul/Turkey. Therefore, it is thought that there may be a limitation in the sample's ability to represent the universe.

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