Fear of Missing Out and Problematic Social Media Use Among University Students in Turkey: Correlates and Further Analysis

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Abstract: This study examines the relationship of fear of missing out (FOMO) with heavy social networking among Turkish university students (aged 17 - 55). The perception of the possible role of parental supervision on online activities is also investigated. Factor analysis of FOMO scale led us to evaluate the construct under two dimensions as (1) fear of missing experience and (2) fear of missing activity. The results revealed that fear of missing activity increases social media intrusion while fear of missing experience is found to have no significant effect. The reverse relationship is also valid: an urge to use social media predicts fear of missing out (activity and experience). Fear of missing experience is associated with problematic social media use (PSMU) and a high desire to use social media. The results additionally demonstrate that students aged 30 and older believe more in the requirement of parental control than those aged 17-22.

Keywords: Fear of missing out (FOMO), Parental control, Problematic Social Media Use (PSMU), Social Media Addiction, Social Media Intrusion

1. Introduction

The communication technologies developed in recent years have gradually increased individualization, and user-centered technologies such as websites, blogs, social networks and video sharing platforms have become prominent. Increased individualization has reshaped communication flows.

With the development of technology, the media have come a long way, and the introduction of computers and mobile phones into all aspects of life-style has increased the usage of media considerably. Capable of making instant communication possible over thousands of kilometers, technical media has gained influence over various aspects of people’s lives, reducing the importance of political borders and making globalization possible. Initially used only by military and administrative authorities, the internet has rapidly come to be used in all areas of life, including corporate networks, commercial institutions, scientific, social and personal research and artistic activities [1].

In 1979, Truscott & Ellis created a virtual network through which internet users could share public messages and laid the foundation of social media [2]. Gündüz [3] makes clear “the term, social media, describes a recent trend that is spreading rapidly, and it means essentially the individual using the internet mainly for communication and conversation. Today, social media has emerged as a place where people who oppose mainstream media, monopolization and globalization write and produce their own news”. Social media platforms have become the most frequently used means of communication due to the aspects that distinguish them from traditional media. The main aspects of social media are connectivity, conversation, content creation and collaboration. They are important reasons for the increasing popularity of social media [4]. On social media,
people can quickly and easily share content they prepare, regardless of time and place. On social network, users can both follow and be followers. Thus, users can share the content they produce, comment on the content of others and participate in interactions by liking content. Social networks are defined as social media not simply because they influence only information platforms, but because they affect our past and our daily lives [5]. Taking the stage as interactive, new media in the 2000s, the internet laid the foundations of an unknown realm with digital publishing, blogs and social networks.

The use of social media is common in Turkey. Turkey Statistical Institute Household Internet usage rate of information and communication technology use was 93.0% in 2018, while the young people in the 16-24 age group was 92.4% in 2019 [6]. “According to We Are Social Digital Report 2020, young people in Turkey are active on social media. They use social media most for: entertainment (60%), obtaining information (59%), spending leisure time (54%), communicating (53%), following and creating trends (51%), and education and research (47%). In addition, 86% of young people connect to social media at least once a day, 72% connect a couple of times a day, and a third of young people spend 2.51 hours a day on social media” [7].

“The world has become more technologically developed over the past few decades. As well as many increased benefits, several health-related consequences related to excessive internet use have come to the attention of researchers, parents, teachers, and treatment providers” [8]. The need to be on social media and user practices have recently emerged as a subject of interest in communication sciences. Technology becoming widespread, the mobile technologies emerging as a result of modernization and ease of access to social media increase access to information and news considerably. With the innovations they offer, technology and the modern world instil the masses with different types of addiction.

After garnering great interest in the media, the FOMO has recently become a research topic for academic researchers. More specifically, studies have found that people who suffer from the “FOMO tend to be in unhealthy relationships with social networking sites. For example, these people are more likely to check their messages while driving and use Facebook immediately after waking up, right before going to sleep and during university courses” [9]. However, the FOMO may have effects other than those related to social network and social media use and academic motivation.

“Excessive Internet use, which is also called uncontrolled use of the Internet, problematic Internet use, net addiction or Internet addiction, causes problems at work/school and in social life” [10]. “With the increased use of the internet, problematic internet use (PIU) has become a public health concern, and has been associated with symptoms of addiction” [11, 12, 13] “which include excessive or poorly controlled preoccupations, urges, and/or behaviors regarding internet access that lead to physical as well as mental impairment or distress” [14]. “Problematic internet use (PIU) can be defined as ‘Internet use that is risky, excessive or impulsive in nature leading to adverse life consequences, specifically physical, emotional, social or functional impairment’” [15].

At this point, we deemed it appropriate to collect all these concepts used by the researchers in connection with the concept of PIU and addiction under a general title as PSMU. Problematic social media use (PSMU), “is defined as an unhealthy excessive form of social media use, which is characterized by a lack of control over the behavior and continued behavior despite adverse life consequences” [16, 17].

“In fact, with the wider diffusion of PSMU, researchers began studying individuals who reported feeling addicted to social media use” [18]. “While researchers have moved away from addiction terminology regarding digital technology use” [19] “the potentially
negative effects of social media overuse have nonetheless received substantial attention over the past years” [20].

“There is broad consensus in the literature on the positive relationship between PSMU and FOMO, but little is known on the direction of such association. In fact, some literature suggests that FOMO constitutes an important risk factor for the development of PSMU” [21, 22, 23] “A major limitation of that study was that the databases used suffered from restricted range in social media use, with the highest category (almost every day) being endorsed by more than 85% of females in the samples. This simply cannot capture differences in use as they occur naturalistically. Checking Facebook for 5 minutes almost every day is surely different that spending hours a day on social media sites” [24].

Social networks’ wide popularity led young people to direct their attention to them. Children and young people who use social media intensively may encounter violent and sexually explicit content or harassment. The unrestricted use of social media causes disorders such as PSMU and may have psychologically harmful effects. “Internet was originally designed to facilitate communication and research activities, but the dramatic increase in its use in recent years has led to pathological use” [10, 25, 26].

“Problematic social media use is associated with mental health symptoms, such as anxiety and depression in children and young people [27]. People of all ages and from all strata are at risk of PSMU. “PSMU can be found at any age and in any social condition, but most of the research major attention has been currently focused on adolescent because adolescent seem to be a critical period of addiction vulnerability” [10, 28]. “However, research also show significant associations exist between adolescents’ social media use and FOMO, a construct which can be defined as a pervasive apprehension that others might be having rewarding experiences from which one is absent, and it is characterized by the desire to stay continually connected with what others are doing” [29, 30]. The danger is especially great for Generation Z. Generation Z spends a lot of time in the digital world and risks addiction because they are active on social media unconsciously and unrestrictedly.

User social media practices appear at the intersection of real-life and virtual life. They provide psychological and emotional satisfaction to users. “Accordingly, it is reasonable to expect that emotional support from social media would significantly predict problematic social media use” [17]. The relation between social media and its users’ practices and PSMU has not received the attention it should. “In its most extreme form, PSMU has been considered a behavioural addiction by some researchers” [31, 32, 33].

Furthermore PSMU “has been linked to aggression, expression of anger, attention deficit hyperactivity disorder (ADHD) and conduct disorder” [34, 35, 36, 37, 38, 39], substance misuse across different youth populations [40, 41] “as well as to the fear of missing out (FOMO) and the need for touch” [42, 43].

“Therefore, it is important to examine how research has contributed to our understanding of problematic social networking behavior. PSMU is a relatively recent phenomenon and there are controversies as to how best to conceptualise it” [33]. Many studies of PSMU have been conducted. A Facebook survey carried out with 1,000 students by Swedish scientists at Gothenburg University revealed that 85% of the participants logged on to Facebook once every day, and found that half of them felt they were falling behind socially when they did not do so. A study carried out with 18-34 year-old women found that 34% connected to Facebook even before going to the bathroom and that 39% defined themselves as Facebook addicts. It also found that the boyfriends of 49% broke into or checked on their accounts and that these women thought of this as normal behavior [44].
As Drouin and colleagues [45] stated that “with new, game-changing technologies on the horizon (e.g., Google Glass), it is likely that the problems associated with mobile phones (e.g., phantom vibrations and nomophobia) will be ephemeral anomalies for everyone – until the next set of addictive behaviors and symptoms emerges”. The effects of PSMU and problematic smart phone use have made the FOMO the new disorder of today’s digital world.

Researchers refer to FOMO as a psychological disorder that manifests itself as PSMU. An experiment with a group in England found that, of 1,000 mobile phone users, 66% said that they could not live without being called and without using social media” [46].

One of the most widely accepted outcomes of PSMU is that people, especially young people, who are not addicted to anything, have a tendency to FOMO. They do not want to engage in social activities. Even if they want to and agree to join, they may change their mind at the last minute. This is the case especially for big decisions such as which school to attend, who to marry, how to find a job and so on. Most young people think they would make the wrong decision if they were to make a decision in any of these areas, or that they have a better option and are missing it [47].

PSMU also triggers the FOMO or missing developments. This disease shows itself also in the comments of Van Dijk on losing connection. In fact, according to him, some users think that the loss of connection should be prevented at any cost, and they hope that they will create new and constantly more rewarding connections by making sure their connections are okay [48]. The FOMO has been conceptualized in many ways as fear of missing opportunities, falling behind, missing trends, not being informed about social interactions, falling short, not being connected, missing experiences and being deprived. The FOMO can thus be described as a state of worry or obsession due to social media fears [49].

As Maclean [50] has written, “evidence shows that the increasing effect of social media on society increases feelings of loneliness and leads people to think there is a better life than the one they are living now, in other words, to feel the FOMO”. The FOMO is also defined as restlessness and burnout causing mainly children and young people to think their peers have things that are better than what they know or have [51].

Previous studies have found that when people use or become engrossed in social media, they develop feelings of inadequacy, restlessness, anxiety or worry [55]. It has been reported that the FOMO “increases participation on social media platforms and motivates users to use them more. A 2012 study by JWT Intelligence found that 40% of 12-67 year-old people say that social media increases the FOMO. Only 8% of the participants said that they feel the FOMO” [51].

“There is a strong correlation between the FOMO and social needs. This becomes even more concrete with the findings of a study carried out by” [29]. Here are their findings:

- The FOMO is the driving force behind the use of social media.
- The FOMO is more prevalent among young people and young men.
- There is a strong correlation between unsatisfied social needs and the FOMO.
- The FOMO is a dangerous distraction for automobile drivers.
- The FOMO is prevalent among students who use social media during classes.
FOMO has been revealed to emerge as an outcome of various factors including “negative social and emotional states” [29], decreased levels of self-regulation [52, 53], “need for popularity and need to belong” [54] and negative affectivity [56]. Its role as a driving factor in social media intensity is of particular interest in the current study. Prior research suggested significant links between FOMO and PSMU. “A higher level of FOMO has been found to be a positive predictor of increased Facebook use” and other “social media in general” [29, 57, 58, 59, 60]. Social media addiction, also, has been found to be positively related with FOMO” [61].

In general PSMU and problematic smartphone use seem to be widespread and related with a variety of negative psychological disorders, such as anxiety, depression, neuroticism, poor sleep, and stress. “Social media allows people high on FOMO to not only monitor the activities of others, but also share their own experiences online” [62] “Additionally, use of social media may allow those high on FOMO to fulfill basic needs for relatedness, autonomy and competence” [29]. “Several recent studies have demonstrated a relatively strong link between FOMO and problematic smartphone and Internet use” [42, 52, 53, 56, 59, 63, 64] Also “PSMU is an antecedent of emotion dysregulation as previous studies indicated that problematic uses of technology are likely to co-occur with emotional distress” [65].

Social networking sites “often exacerbate FOMO due to the ability of users to manage the way that others view them by presenting a perfect image of who they are, that is, self-presentation and impression management” [66]. “Activities such as censoring, exaggerating, and even lying about ones’ life when creating online content can achieve FoMO that results in others feeling envy, and overall less worthy, less happy, and even unsuccessful by comparison” [67, 68].

“Therefore, the media furor may not be entirely unfounded FOMO, PSMU and problematic smartphone use, whether they are considered independently or part of the same construct, are real problems within modern society. Moreover, people are becoming aware of their addictions, and in the coming years, it is likely that many people will seek treatment for their addictions. Fortunately for these people, help appears to be abundant: a Google search for” FOMO [69] returned more than 9,690,000 hits.

This study examines the correlations between social media intrusion, PSMU and FOMO. Social media intrusion is characterized by three elements: social media intensity, use of social media in inappropriate situations and the desire to use social media. FOMO construct is analyzed further to understand the contributions of its building factors. Additionally, the general perception about the requirement of parental control on online activities is explored. The research questions are as follows:

- What are the building blocks of FOMO?
- How social media intrusion elements are related with each other?
- Is there a relationship between social media intrusion and FOMO?
- Is there a relationship between PSMU and FOMO?
- Is there a relationship between social media intrusion and PSMU?
- Are there socio-demographic differences in social media intrusion and in scores of FOMO and PSMU?
- What is the perception about the requirement of parents’ control on online activities?
2. Materials and Methods

In order to gather data for constructs, we implemented a questionnaire with measurement items from literature. The study was conducted on private and public university students in Turkey. We created the questionnaire on Google Forms, and the survey’s URL was posted in authors’ social media accounts and WhatsApp groups of students, and made accessible between January and April 2019.

A total of 500 questionnaires were completed. Of this amount, 22 had the same answer on all items, and 5 had missing values, so totally 27 surveys were removed. Overall, there were 473 completed surveys (290 women, 183 men) available for data analysis; none of them containing missing data. Participants ranged in age from 17 to 55 (M = 23.32, SD = 5.50). Other descriptive statistics of the sample are given in Error! Reference source not found..

Table 1. Descriptive statistics of the participants

| Statistics             | N   | %   |
|------------------------|-----|-----|
| Degree enrolled        |     |     |
| Undergraduate          | 396 | 83.5|
| Master’s               | 57  | 12.0|
| PhD                    | 21  | 4.50|
| Freshman               | 70  | 14.8|
| Sophomore              | 83  | 17.5|
| Junior                 | 135 | 28.5|
| Senior                 | 113 | 23.9|
| Master’s               | 51  | 10.8|
| PhD                    | 21  | 4.4 |
| Family well-being      |     |     |
| Very poor              | 5   | 1.1 |
| Poor                   | 50  | 10.6|
| Adequate               | 277 | 58.6|
| Good                   | 131 | 27.7|
| Very good              | 10  | 2.1 |
| Mother’s educational level |    |     |
| Primary school         | 211 | 44.6|
| Secondary school       | 148 | 31.3|
| Associates             | 54  | 11.4|
| Bachelor’s degree      | 54  | 11.4|
| Master’s degree        | 5   | 1.1 |
| PhD                    | 1   | 0.2 |
| Father’s educational level |    |     |
| Primary school         | 148 | 31.3|
| Secondary school       | 174 | 36.8|
| Associates             | 57  | 12.1|
| Bachelor’s degree      | 79  | 16.7|
| Master’s degree        | 8   | 1.7 |
| PhD                    | 7   | 1.5 |

Measures
We administrated 6 different scales to measure: social media intrusion, FOMO level, PSMU and perceptions about parental control.

Each scale used in this study has been employed in numerous researches and found as reliable measurements. All scales are measured on 5-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree). The scales were translated into Turkish. To ensure conceptual consistency, back translations were performed by a group of academicians fluent in English and Turkish.

**Socio-Demographic Questions**

We queried the following demographic variables of the respondents: age, gender, degree and class enrolled, family well-being and parents’ educational level.

**Social Media Intensity Scale**

The scale was developed by Ellison et al. [70]. It measures any emotional attachment to social media and how much it intrudes into one’s life. The tool consists of 6 questions. The Cronbach’s alpha was 0.86 in the present sample.

**Social Media Use**

We used the scale developed by Hetz et al. [71] to measure the participants’ use of social media in inappropriate times such as during meals, just before sleeping or just after waking up. The tool consists of 5 questions. The Cronbach’s alpha was 0.84 in the present sample.

**Social Media Usage Urges**

The scale was developed by Abel et al., [51]. It measures the desire to log into social media when one is alone or together with people or during classes. The tool has 4 questions. The Cronbach’s alpha was 0.76 in the present sample.

**Fear of Missing Out Scale**

Developed by Przybylski [29], the scale measures at what level participants experience FOMO on the activities and events their friends have. The tool consists of 7 questions. Two dimensions were found in the scale in factor analysis. These two sub-dimensions of the FOMO scale are named as: Fear of Missing Experience (FOME) and Fear of Missing Activity (FOMA). The Cronbach’s alphas were 0.86 for FOME and 0.72 for FOMA. Table 1 gives the factor loading of each scale item and the variances.

| Factor Name | Factor Item | Factor Loading | Variance (%) |
|-------------|-------------|----------------|--------------|
| FOMA        | I fear my friends have more rewarding experiences than me. | 0.892 | 50.693 |
|             | I fear others have more rewarding experiences than me. | 0.887 | 50.693 |
|             | I get worried when I find out my friends are having fun without me. | 0.755 | 50.693 |
I get anxious when I don’t know what my friends are up to. 0.714

When I miss out on a planned get-together it bothers me. 0.866

It bothers me when I miss an opportunity to meet up with friends 0.838 18.290

It is important that I understand my friends “in jokes.” 0.584

### Fear of Missing Activity (FOMA)

Bergen Facebook Addiction Scale

Developed by Andreassen et al. [31], the scale measures whether the participant displays problematic social media use. The *Facebook* terms in the original tool is replaced by *Social Networking Sites (SNS)* to encompass the whole variety of social media sites. It consists of 6 questions. The Cronbach’s alpha was 0.81 in the present sample.

Parents Control

The scale was developed by Wąsiński and Tomczyk [72]. The tool originally was designed to measure the level of any present parental supervision on internet use of the respondent. However, we used a modified version of the scale that measures the perception about the requirement of parental control instead. That is, the participants are queried about their level of agreement about the possible control of parents on children in general. We changed the questions “Parents determine…” as “Parents should determine…” . The tool consists of 5 questions. The scale items and their factor loadings are given in *Error! Reference source not found.*. The Cronbach’s alpha was 0.93 in the present sample.

| Factor Name | Factor Item                                                                 | Factor Loading |
|-------------|----------------------------------------------------------------------------|----------------|
| Perception about Parental Control | Parents should determine types of computer games which students are allowed to play | 0.901 |
| Perception about Parental Control | Parents should determine types of websites which students are allowed to visit | 0.901 |
| Perception about Parental Control | Parents should determine types of software which students may install on their computers | 0.894 |
| Perception about Parental Control | Parents should determine the time of the day and time devoted to e-activity by students | 0.878 |
| Perception about Parental Control | Parents should determine the rules of e-activity of students and they should monitor their compliance. | 0.855 |

### Analysis and Results

**Regression Analyses**

Bivariate correlations between all variables can be seen in Table-4. In order to test the relationship between social media intensity and other variables in the model, we carried out multiple linear regression analysis with social media intensity being the dependent
variable. The significant predictors of social media intensity are given in Table 5. (R=0.750, R^2=0.562, F=154.594, p=.000). The contributions of the remaining variables were insignificant and small in magnitude. Thus, FOMA had contribution on social media intensity whereas FOME did not.

Table 4. Intercorrelations among study variables

|            | 1  | 2  | 3  | 4  | 5  | 6  |
|------------|----|----|----|----|----|----|
| 1. Social Media Intensity | 1  |    |    |    |    |    |
| 2. Fear of Missing Experience | 0.320** | 1  |    |    |    |    |
| 3. Fear of Missing Activity | 0.378** | 0.465** | 1  |    |    |    |
| 4. Social Media Use | 0.627** | 0.296** | 0.259** | 1  |    |    |
| 5. Social Media Usage Urges | 0.661** | 0.362** | 0.349** | 0.644** | 1  |    |
| 6. SNS Addiction | 0.598** | 0.398** | 0.370** | 0.537** | 0.616** | 1  |
| Average     | 3.31 | 2.53 | 3.44 | 2.88 | 3.04 | 2.63 |
| SD          | 0.89 | 0.97 | 0.88 | 0.95 | 0.84 | 0.84 |

*p<0.05  **p<0.01

To assess the contributions of social media intrusion and PSMU on the two dimensions of FOMO, multiple linear regression analyses were conducted with FOMA and FOME being the dependent variables. The results of the analyses are given in Error! Reference source not found. for FOMA (R=0.408, R^2=0.166, F=46.828, p=.000) and in Table 6. Predictors of FOMA for FOME (R=0.422, R^2=0.178, F=51.040, p=.000). The variables not included in the tables had insignificantly small contributions.

Table 5. Intercorrelations among study variables

| Independent Variables                | Beta  | t-value | p-value |
|--------------------------------------|-------|---------|---------|
| Social Media Usage Urges             | 0.331 | 7.555   | 0.000   |
| Social Media Use                     | 0.276 | 6.810   | 0.000   |
| Social Media Addiction               | 0.210 | 5.192   | 0.000   |
| Fear of Missing Activity             | 0.106 | 3.232   | 0.001   |

Table 6. Predictors of FOMA

| Independent Variables                | Beta  | t-value | p-value |
|--------------------------------------|-------|---------|---------|
| Social Media Addiction               | 0.255 | 4.855   | 0.000   |
| Social Media Intensity               | 0.200 | 3.813   | 0.010   |

Table 7. Predictors of FOME

| Independent Variables                | Beta  | t-value | p-value |
|--------------------------------------|-------|---------|---------|
| Social Media Usage Urges             | 0.146 | 2.756   | 0.006   |
| Social Media Addiction               | 0.316 | 5.956   | 0.000   |
Demographic Associations

Independent sample t-test was performed to assess whether there exist statistically significant differences in the study variables due to demographics. According to results of the tests, no significant differences were found between different demographic categories for the scores of social media intrusion, PSMU, FOME, and perception about parents’ control. However, as Error! Reference source not found. shows, there was a difference between male and female scores of FOMA, with men experiencing mildly higher levels of fear of missing activity.

Table 8. Independent sample for gender

| Gender | N   | Mean | SD   | t-value | p-value |
|--------|-----|------|------|---------|---------|
| FOMA   |     |      |      |         |         |
| Female | 290 | 3.382| 0.883| -2.036  | 0.042   |
| Male   | 183 | 3.548| 0.842|         |         |

Age Differences

One-way ANOVA was conducted to compare the effect of age on each study variable. No differences existed for social media intrusion, PSMU and the two dimensions of FOMO. However, scores of perceptions about parents’ control had a significant difference across various age groups (F(2) = 9.084, p = 0.000). Error! Reference source not found. gives the statistics for the three age groups. Post hoc comparisons using the Scheffe test indicated that the mean score for 17-22 age group and 30 and older group were significantly different (p values are given in Error! Reference source not found.).

Table 9. Scores of perception about parental control for different age groups

| Perception about Parents’ Control | Age range | N   | Mean | SD   |
|----------------------------------|-----------|-----|------|------|
| 17-22                            | 293       | 3.041| 1.225|
| 23-29                            | 133       | 3.387| 1.131|
| 30 and older                     | 46        | 3.744| 1.094|

Table 10. Scheffe test results for the perception of parents’ control scores of age groups

|               | Mean Difference | SE  | p value |
|---------------|-----------------|-----|---------|
| 17-22         |                 |     |         |
| 23-29         | -.34551’        | .12411| .021    |
| 30 and older  | -.70252’        | .18826| .001    |
| 23-29         |                 |     |         |
| 17-22         | .34551’         | .12411| .021    |
| 30 and older  | -.35701         | .20304| .214    |
| 30 and older  |                 |     |         |
| 17-22         | .70252’         | .18826| .001    |
| 23-29         | .35701          | .20304| .214    |
4. Discussion

In the present study, we aimed to assess the relationship of FOMO construct with problematic social media use (PSMU) and social media intrusion among university students in Turkey. Desire to check social networking sites at social occasions (social media usage urges), how much one embraces these sites (social media intensity) and logging into them in inappropriate times – such as during meals or just before or after bedtime – (social media use) defined the context of social media intrusion. We also explored the perception about a possible parental supervision on online activities of the children.

Factor analysis of FOMO scale revealed that the contribution of items to latent FOMO factor were different, which enabled us to assess the scale under two dimensions as fear of missing activity -FOMA- and fear of missing experience -FOME-. These sub-factors shed some light on the association of FOMO with social media use habits or PSMU reported both in this study and in previous research (29, 54, 56, 60, 61; Oberst et al.,). FOME came out to be a dimension with more pathological items included. We found that it is the fear of missing activity which leads to elevated social media intensity levels, while the other dimension -fear of missing experience -had no significant effect. The reverse relationship was also found to be true: social media intensity would serve as a predictor of FOMA. We found evidence that FOME was more predicted by social media usage urges. This result is reasonable since we would expect the more pathological fear of missing experience feeling to be experienced more frequently by the ones who have an intense desire to check social media accounts even in social occasions. PSMU, on the other hand, drove both of the FOMO dimensions.

We found evidence of several indirect associations as well. Social media intensity mediated the relations between social media usage urges and FOMA, and between social media use and FOMA. It mediated also the relations between PSMU, also a direct predictor of FOMA as stated earlier, and FOMA.

Figure 1 depicts a summary of the correlations found between social media intrusion, PSMU and the two dimensions of FOMO.

We found no statistically significant effects with demographic variables in neither of social media intrusion, PSMU and FOME. Demographic variables we queried were consisted of age, gender, degree and class enrolled, family well-being and parents’ educa-
tional level. FOMA, however, was found to be experienced more by men than women. This result supports a prior finding [29] that reported FOMO to be related to male gender. We contribute on this earlier finding by stating that higher levels of FOMO scores of men are a result of FOMA dimension of FOMO. Otherwise, FOME dimension of FOMO exhibited no difference between male and female sex.

One additional analysis we conducted was to picture out the perception of the university students about parental control on computer and internet activities. Instead of measuring any present parental control on participants we rather measured what people think about this supervision since it would give clues about whether internet and social media are regarded as potential hazards to individual life. The results revealed that higher age groups (30 and older) believe in such a requirement significantly stronger than younger people (17-22 ages). The result is important to show clues about an existing fear of problematic internet use, hence PSMU, in society.

Future research could extend the correlation analysis of this study to social groups other than university students. The two dimensions of FOMO suggested in the current study could be taken into consideration to re-evaluate the association of the construct with various factors previously studied in the literature.

Limitations

Our study has limitations to be noted. The results of the study were only due to Turkish university students and cannot be generalized to other cultures. Although the age range of the participants was rather wide, the remaining age groups should also be analyzed. Another limitation was that the majority of the participants were females. This is in part due to women being more willing to participate in questionnaires. Finally, the data was constructed through self-report measures, making the validity of the data depend on the accuracy of the participants’ responses.

Conclusions

The main purpose of this study is to find out associations between FOMO and social networking sites use habits among Turkish university students. Our study is the first to reveal two important dimensions of the FOMO construct: fear of missing activity (FOMA) and fear of missing experience (FOME). This is especially important in diagnosing what may be regarded as pathological in fear of missing out feeling. FOME is predicted more with checking social networking sites in social occasions and with PSMU. FOMA, however, is predicted with increased use of social media, even just before sleeping or close after wake up, and thus with increased intrusion of social media in one’s life. Different FOMO levels for men and women widely stated in the literature should be further assessed considering the two sub-dimensions of the construct, since the study here revealed it is the fear of missing activity leading to elevated levels of FOMO scores in men. Another novelty in our study is the measurement of the perception about a possible parental supervision for safe networking. Older age groups having higher levels of agreement with the requirement of parental control, as we found here, is especially important to find clues about problematic use is an accepted phenomenon in society.

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