

Journal of multidisciplinary academic tourism 2021, 6 (2): 127-142

www.jomat.org

ISSN: 2645-9078 OLD ISSN: 2548-0847

How do flow experiences and emotional states of individuals participating in recreational activities affect their self-efficacy perceptions and life satisfaction?#

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ABSTRACT

Keywords:

Flow Experience, Positive Emotions, Negative Emotions, Self-Efficacy, Life Satisfaction

This research is based on social cognitive theory and aims to determine the effects of flow experience and positive and negative emotional states of individuals participating in recreational activities on their selfefficacy. The study also aimed to explore the effect of flow experience, self-efficacy, and positive-negative emotions on individuals' life satisfaction. The data were collected through a valid and reliable scale. Convenient sampling method was employed and 434 valid questionnaires were collected between January and April 2018. Hypotheses were tested by multiple regression analysis. Results show the balance between challenges and skills subscale of flow experience and positive emotional state affect selfefficacy. In addition, life satisfaction is affected by flow experience, positive emotions and self-efficacy. Based on the relevant findings and inferences, some suggestions have been developed for the enterprise or operators. Within the scope of the flow experience, balance between challenges and skills can be taken into account by the companies that work with intensive business timetable (for example: businesses where the service is offered on site, such as hotels, restaurants). A further suggestion can be made for managers of sports clubs, fitness center operators, course managers (such as swimming, dancing) and public managers. More individuals should be directed to do physical activities for themselves, regardless of whether they are indoor or outdoor activity.

Article History: Submitted: 08.01.2021 Accepted: 14.06.2021

Doi: https://doi.org/10.31822/jomat.2021-6-2-127

1. Introduction

The flow means that individuals get so much into an activity or event and this experience can be enjoyable to the extent that individuals need to pay a price for it (Csikszentmihalyi, 2005, p. 6). Flow examines the process of achieving happiness by controlling the inner life of the individual (Csikszentmihalyi, 1990). The Flow Theory, developed by Csikszentmihalyi, explains why people do something for themselves and participate in activities (Csikszentmihalyi & LeFevre, 1989, p. 816).

Subjective well-being in flow theory means that individual engages with activities that correspond to one's skills. In other words, it is accepted as the state of regularity in the consciousness formed by the sum of the flow experiences while struggling with difficulties (Csikszentmihalyi, 1990). The genetic characteristics of the individuals and the

environment in which they live cause themselves to experience flow. The individual who experienced flow is happy because of developing and realizing oneself (Csikszentmihalyi & LeFevre, 1989), which in turn increases quality of life and life satisfaction (Sahranç, 2007).

Social Cognitive Theory defines self-efficacy as the internal belief that the individual can overcome encountered difficulties by self-evaluating the circumstances (Bandura, 1986). Experiences, the achievement of other individuals with whom one compares him/herself, the opinions of others about the one's competence and the physical and emotional state affect self-efficacy belief. The positive emotions increase his self-efficacy whereas negative emotions cause a decrease (Gupta & Kumar, 2010).

In the literature, there are studies examining the relationship between flow experience and self-

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efficacy (Basom & Frase, 2004; Frase, 1998; Hong et al., 2012; Mesurado, Cristina Richaud, & José Mateo, 2016; Reid, 2004; Sahranç, 2008). However, it has been observed that there is no study that directly examines this relationship in recreation and tourism literature. Considering the relationship between flow experience satisfaction with life, it can be mentioned that there are a limited number of studies in the field of recreation, tourism and sports (Sidorová, 2015; Baek, 2017; Ayazlar & Yüksel, 2018). Although limited, in parallel with the relational situations mentioned, in the case of individuals participating in recreational activities; how flow experience and emotional states affect self-efficacy and life satisfaction is the main problem of this study. This problem determines the purpose of the research. The main purpose of this study is to determine the effect of flow experiences and emotional states (positive-negative) of individuals participating in recreational activities on their self-efficacy and life satisfaction. In addition, the study aimed to determine the effect of self-efficacy on life satisfaction. Self-efficacy plays a key role in behavioural psychology, but there is no research that looks at the flow experience, life satisfaction and emotions. Besides, this research has looked into individuals doing recreative activities, which makes it unique since there is no empirical research in this field.

2. Literature Review

Flow Experience

Flow experience is defined individual participating in an any activity keep the balance between challenges and skill at a high level, have a clearly defined purpose, feel in charge and receive feedback, concentrate on the activity and enjoy it (Csikszentmihalyi, 2005). Moneta (2004) focusses on the individual's compliance with the activity, defines the flow experience as concentration of the individual on the activity, cognitive competence during the activity, the pleasure one gets from the activity and feeling fully compatible with the activity.

Flow experience, in other words, is optimal performance mood and a concept based on flow theory (Aşçı, Çağlar, Eklund, Altıntaş, & Jackson, 2007). Flow theory aims to understand why people do something for themselves (autotelic) and participate in activities. The theory argues, in the case of mental (psychic) disorganization, or irregularity in consciousness, the individuals may control their inner lives, as this will allow them to direct their attention to a particular purpose and to

combat the challenges they come across. Meanwhile, the individual feels the joy and pleasure. This pleasant experience of the individual is accepted as flow experience (Csikszentmihalyi, 2005).

Csikszentmihalyi (1990) talks about many qualities that make activities more enjoyable and create a feeling of inner satisfaction. These qualities are listed as balance between challenges and skills, concentration, clear goals, unambiguous feedback, action-awareness, sense of control, loss of self-consciousness, transformation autotelic experience. If the individual has at least one of these mentioned qualities while performing an activity, then there is flow experience (Aşçı et al., 2007; Aykol & Aksatan, 2013; Csikszentmihalyi, 1990; Jackson & Marsh, 1996; Nakamura & Csikszentmihalyi, 2002).

There are many studies in the literature that looks into the qualities of flow experience and flow experience measurement and they investigate different dimensions and aspects of the experience (Jackson & Eklund, 2002; Jackson, Martin, & Eklund, 2008; Magyaródi, Nagy, Soltész, Mózes, & Oláh, 2013; Rheinberg, Vollmeyer, & Engeser, 2003; Sahranç, 2008). For example, Magyaródi et al. (2013) evaluated the scale of Flow State Questionnaire (FSQ). The scale has 20 items and has two subscales. These are balance between challenges and skills and absorption in the activity.

Balance between challenges and skills: It expresses the balance between the competencies of the individual and the cahallenges of the activity (Jackson & Csikszentmihalyi, 1999). At the same time, clear goals (the individual knows what to do during the activity) and the sense of control (the individual feels in charge during the activity) are evaluated within this scope (Magyaródi et al., 2013; Özdemir, Durhan, & Akgül, 2020; Turan, 2019).

Absorption in the activity: This is about the individual's complete immersion in the transformation of time (the individual loses the perception of the time) (Magyaródi et al., 2013). This subscale evaluates the loss of self-consciousness, total concentration on the task (the individual does not care what is going on around him and focues only on the goal) (Csikszentmihalyi, 1990) and action-awareness merging (Magyaródi et al., 2013; Özdemir, Durhan, & Akgül, 2020; Turan, 2019).

Emotional States

Emotional states are considered under two dimensions as positive and negative emotion.

Positive emotion (PE) defined as an individual's feeling of enthusiastism, awake and active whereas negative emotion (NE) defined as subjective distress and lack of pleasure in enjoying the life (Watson, Clark, & Tellegen, 1988). Positive emotion includes pride, satisfaction, happiness, trust, comfort and similar emotional states. Negative emotion expresses a different structure where the individual experiences sadness or fear (Doğan & Özdevecioğlu, 2009).

While high PE refers to high energy, full focus and enjoyment of life, low PE refers to the situation where enjoyment of life is low, and the individual is more likely to be inactive. High NE expresses a situation where negative moods such as anger, fear and guilt are prevalent; low NE refers to the state of being calmer and quiet (Watson et al., 1988). Experiencing anger, tension, anxiety and guilt is not compatible with the absence of positive emotion. This situation is defined as the lack of negative emotions (Cropanzano, Weiss, Hale & Reb, 2003; Doğan & Ozdevecioğlu, 2009). Although positive and negative moods seem to be opposite and negatively related, they are theoretically and empirically independent structures. Therefore, it is likely that individuals can experience both emotions simultaneously (Diener & Emmons, 1984; Warr, Barter, & Brownbridge, 1983).

Life Satisfaction

Neugarten, Havighurst and Tobin (1961) are the first one who used the concept of Life Satisfaction. Life satisfaction is defined both cognitively and emotionally. Cognitively, it compares standards set by the individual with their own conditions. It is expressed as the individual's own assessment, and the criteria deemed appropriate, independent of the standards imposed by external factors (Diener, Emmons, Larsen, & Griffin, 1985). Emotionally, life satisfaction is defined as the conscious experience of the individual based on positive emotions over negative emotions (Frish, 2006, p. 21). Since the measurement of cognitive life satisfaction is easier than measurement of emotional life satisfaction and more consistent results can be achieved in terms of validity and reliability, the definition of life satisfaction in a cognitive sense is more prominent in the literature (Diener & Seligman, 2004; Deniz, 2006).

General life satisfaction, which corresponds to the cognitive evaluation of life satisfaction, is the result of the individual's assessment of life satisfaction as a whole (Sahranç, 2007). Life satisfaction differs from satisfaction in specific living spaces (such as job or marriage satisfaction)

in the form of a subjective state of consciousness. Life satisfaction is an assessment of life or life satisfaction as a whole, and it is different from satisfaction with specific living spaces (such as job or marriage satisfaction) as a subjective state of consciousness (Ehrhardt, Saris, & Veenhoven, 2000).

Self-Efficacy

Although, the concept of self-efficacy is one of the structures of Social Cognitive Theory. The theory is introduced in Bandura's (1986) book of 'Social Foundations of Thout and Action'. Bandura (1986) argues that self-efficacy is one of the concepts that form the core of Social Cognitive Theory. He advocates that Social Cognitive Theory is effective on behaviours. According to the theory, individual evaluates and controls himself/herself before encountering conditions that determine future. The individual is the product and the producer of environment and social systems. Individual's power on the environment and social systems stems from one's belief in own talents (Bandura, 1977; Bandura, 1986). Bandura (1982, p. 123) emphasizes that one's belief in own abilities can be predicted and called as 'self-efficacy'. Bandura (1986, p. 391) defines self-efficacy as a belief in how well an individual can take the necessary actions to manage possible situations. According to Bandura, self-efficacy beliefs affect an individual's feelings, thoughts, motivation and behaviour. Selfefficacy is not a perceived or observed skill, but an internal assessment of what an individual can do with certain skills against certain conditions (Akgündüz, 2013; Bandura, 1994; Keskin, 2020; Kızanlıklı & Silik, 2019; Maddux, 2002).

Hypothesis of the Research

Self-efficacy, based on Social Cognitive Theory, affects how the individual behaves, how much effort one takes and how long it lasts (Tipton & Worthington, 1984). In this context, depending on the flow theory, it can be said that the self-efficacy beliefs they have about the activities they will participate in affect the attitudes of individuals towards these activities.

Individuals' success or failure affects their attitudes towards similar activities they will do in future (Sahranç, 2007). Completing the activity successfully increases the desire to participate in the activity and the level of the effort, depending on the effect of experiences on self-efficacy (Bandura, 1986). Therefore, a successful flow experience increases the individual's self-efficacy belief for both the achieved and similar activities. This also leads to the absorption in the activity.

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The research of Tandon (2017), Mesurado et al. (2016) and Reid (2004) also show the positive effect of flow experience on self-efficacy. H1a and H1b hypotheses have been developed based on relevant explanations, conclusions and studies supporting the relationship between flow experience and self-efficacy.

H1a: The perceptions of individuals participating in recreational activities regarding the balance between challenges of the activity and their skills positively affect their self-efficacy.

H1b: Individuals participating in recreational activities absorption in the activity positively affect their self-efficacy.

According to the activity theory, individuals consider their physical and emotional states while their capacities (Certel, judging Bahadır, Saracaloğlu, & Varol, 2015, p. 309). Therefore, flow theory can best explain the emotional state (Yetim, 2001). The individual feels delightful if s/he believes that s/he can overcome the difficulties of the activity with his/her own skills. In other words, if the skill level of the person is sufficient, the flow of activities and the factors that resist these activities will increase the pleasure. If the individual evaluates the activity as very easy, he / she will consider this activity annoying. If the activity is considered to be difficult then this will increase the anxiety (Yetim, 2001, p. 257). Therefore, perception of difficulty or achievability regarding the activity affects the emotional state of the individual (Csikszentmihalyi, 2005).

Bandura (1986) emphasizes that the physical and emotional state of the individual is one of the factors affecting the self-efficacy belief. Therefore, the feelings of anxiety and stress my increase if individuals believe that they cannot successfully complete the activity. When they believe that they can achieve using their skills, then their selfefficacy and positive emotions increase (Bandura, 1986). Therefore, it can be said that relationship between individuals' positive and negative moods and self-efficacy beliefs begins with the evaluations of individuals about their own skills. The research of Marat (2003), Gupta & Kumar (2010) and Caprara et al. (2006) show that there is a relationship between positive and negative emotions and self-efficacy. Based on the explanations and studies that are thought to support the relationship between these two concepts, it is predicted that positive emotional state will affect self-efficacy positively, negative emotional state will affect self-efficacy negatively.

H2a and H2b hypotheses have been developed as follows:

H2a: Positive emotional states of individuals participating in recreation activities positively affect their self-efficacy.

H2b: Negative moods of individuals participating in recreation activities negatively affect their self-efficacy.

Life satisfaction is a general assessment of the individual's experience of activities in work and family life (Sahranc, 2007). The individual who is happy with the experience of the activity and who enjoys the experience looks for more experience (Moneta, 2004, p. 115). These experiences also include actions taken in daily life. Depending on the flow experience, the relationship between flow and life satisfaction arises from the activities that the individual performs within the working time and in free time (Larson & Csikszentmihalyi, 1978). The research of Collins et al. (2009), Han (1988) and Bryce and Haworth (2002) that looks into flow experience and life satisfaction show that the relationship between flow experience and life satisfaction is twofold. Accordingly, the flow experience ensures that the individual is happy. Drawing on the aforementioned research, it has been predicted that the subscales of flow experience will positively affect life satisfaction and H3a and H3b hypotheses have been developed.

H3a: Perceptions of individuals participating in recreational activities regarding the balance between their skills and the challenges of the activity positively affect their life satisfaction.

H3b: Individuals' absorption in the activity positively affects their life satisfaction.

According to the flow theory, which is considered as the determinant of the activity theory, the individual falls into certain emotional states (Csikszentmihalyi, 2005). Since the positive and negative emotions of the individual participating in the activity shape the emotional well-being, the evaluation of this emotional state will have an impact on the life satisfaction of the individual. This situation is explained in the form of life satisfaction as a result of the individual's expectations and the comparison of what one (Çetinkaya, 2011). Therefore, life satisfaction can be examined as an output of the flow experience.

The research of Deniz et al. (2012), Kuppens, Realo and Diener (2008), and Palmer, Donaldson and Stough (2002) suggests that negative emotions reduce life satisfaction, and positive emotions

increase life satisfaction. Consequently, H4a and H4b hypotheses have been developed since positive and negative emotional states are expected to affect life satisfaction based on these inferences and research.

H4a: Positive emotional states of individuals participating in recreation activities positively affect their satisfaction with life.

H4b: Negative emotional states of individuals participating in recreation activities negatively affect their life satisfaction.

Life satisfaction is determined based on the individuals' evaluation of the processes associated with their life patterns and standards (Telef, 2011). Life satisfaction can be expressed as the degree of achieving the goals set by the individual (Aysan & Bozkurt, 2004). Self-efficacy beliefs positively affect the individual's living conditions as it motivates individuals to achieve their goals regardless of other factors (Bandura et al., 2001). The empirical study of Singh and Udainiya (2009), Azar, Vasudeva and Abdollahi (2006), Verbruggen & Sels (2010) and Şahan et al. (2012) show that there is a relationship between self-efficacy and life satisfaction. Therefore, as the Social Cognitive Theory suggests, the H5 hypothesis has been developed. It is expected that there will be a relationship between the individual's beliefs about their own competencies, that is, self-efficacy beliefs and life satisfaction.

H5: Self-efficacy of individuals participating in recreation activities positively affects their life satisfaction. Figure 1 presents the model showing the research hypotheses.

3. Method

Data Collection

The research process was carried out in two stages. First, pretest was conducted to test the comprehensibility and reliability of the scale items between October and November, 2017 in Mersin. Data were collected by convenient sampling and through face-to-face interview technique with 67 participants who were active in indoor and outdoor areas. However, the data of 63 participants were taken into consideration when the missing data were removed from the data set. The reliability coefficients (a> .70) for the whole scale and the items representing each structure were highly acceptable (Nunnally, 1978, p. 245).

After the pre-test process in which item reliability was tested, data collection process was performed to test hypothesis. This process was carried out between January and April, 2018 with convenient sampling method. The population of the study includes individuals who participate in activities and who are active in the indoor and outdoor areas. The data were collected from individuals and students university participating mountaineering, dance, travel and hiking clubs, fitness and bowling halls, playing outdoor and indoor football and basketball, and taking part in walking trails activities in Mersin, Antalya, Adana, Kayseri and Sivas. Mersin Youth Services Sports Provincial Directorate contributed to the data collection process and helped us collect data from their sports units.

Population and Sampling

At the end of the data collection process, 466 questionnaires were obtained. However, during the

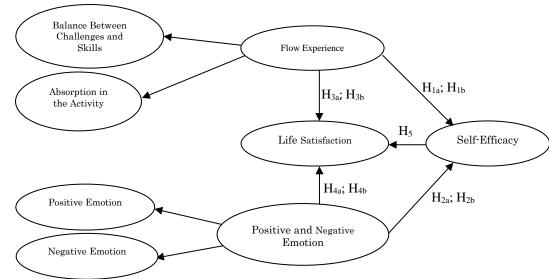


Figure 1: Research model and hypotheses

Source: Authors



31 preparation of the data foranalysis, questionnaires were found to have missing data and 1 questionnaire determined as a sling in multiple normal distribution test, and therefore they were removed from the analysis. In total, 434 questionnaires were used. According to Sekaran (1992), the number of samples for the universe size of 10.000.000 and above is 384. According to the Statistical Institute, 2017 Turkey's population is 80.810.525 (TÜİK, 2018). Thus, the current 434 data reached at the end of the data collection process are thought to represent the population.

Data Collection Tool

Questionnaire form was used to collect data. The survey form consists of two parts. The first part consists of four scales. Flow State Questionnaire (FSQ) developed by Magyaródi et al. (2013) was used and adapted to Turkish. The FSQ has 20 items and two subscales and aims to measure flow experience. In the adaptation process, we first got expert opinions and then pretested with it with 63 participants for the comprehensibility and reliability of the items. Scale reliability (α > 80) was found high. However, statements (Since the data were collected face to face, relevant determinations were made by following the verbal statements of the participants) that were found 2018

to be not understood by the participants during the data collection process were reviewed once again by the same experts at the last stage. Then again data collection has started. From this point of view, it can be said that the content validity for flow experience scale items is met. Content validity is evaluated as referring to "expert opinion" and determining the appropriate one accordingly, regarding situations where the expression structures in the measurement tool are not suitable or appropriate for the purpose of measurement, representing the area to be measured or not (Karasar, 2002, p. 151)

The Positive and Negative Affect Schedule (PANAS) developed Watson et al. (1988) was used to measure emotional states. The sale has 20 items and two subscales. The scale was adapted to Turkish by Gençöz (2000). We used the work of Gençöz to measure positive and negative emotional states.

Generalised Self-Efficacy Scale consisting of 10 items and one subscale was used. The scale was developed by Schwarzer et al. (1997) The translation of the scale from Germen to Turkish was done by Yeşilay, Schwarzer and Jerusalem

(1996). We adapted the statements according to the purpose of this study.

The Satisfaction with life Scale (SWLS) consists of 5 items and one subscale. It was developed by Diener et al. (1985). Köker (1991) and Dağlı and Baysal (2016) carried out the Turkish adaptation of the questionnaire. Based on the relevant studies, we adapted the statements according to the purposes of the research. All scale items are expressed in 5-point Likert type.

The second part of the questionnaire includes demographic statements such as age and the province, gender, marital status, educational status (primary, secondary, high school, associate, undergraduate, graduate), family monthly income (1650 TL and less, 1651 TL -3300 TL, 3301 TL -4950 TL, 4951 TL -6600 TL, 6601 TL -8250 TL, 8251 TL - 9900 TL, 9901 TL and above), income group (low, middle, middle, middle, high).

In order to follow and observe the variety of activities in the demographic section, the participants were asked most frequently and how often they exercise. At the same time, the type of physical activity (individual (alone), group (made with the team), and the area in which they performed the activity (nature-outdoor, indoorindoor) were asked as closed-ended statements.

Analysis and Findings

In the analysis process of the research, the aim is to describe the characteristics of the participants, test the validity and reliability, and analyze the relational structures. Then, we tested the hypothesis using regression analysis.

Before proceeding to the analysis, the loss data rate was calculated to be around 10% (Hair, Black, Babin, & Anderson, 2010) and no data has been removed from the data set. Then, multiple sling analysis was conducted. As a result of the analysis, only one data was determined as a slingshot and was removed from data set. After multiple sling analysis, multiple normal distribution control was performed and it was determined that the data showed a multivariate normal distribution (correlation coefficient> .962) (Kalaycı, 2010). The data (434 questionnaires) were evaluated and the analysis phase was started. In the analysis process, descriptive analysis related to demographic variables were used determine to characteristics of the participants. Findings regarding the demographic characteristics of the participants are presented in Table 1.

Tablo 1: Demographic information of the participants

Gender (n=434)	n	%	Employment Status (n=397)	n	%
Female	168	39	Employed	198	50
Male	266	61	Unemployed	199	50
Age (n=431)			Monthly Income (n= 420)		
12-20	95	22	1650tl and less	89	21
21-30	244	57	1651tl-3300tl	176	42
31-40	70	16	3301tl-4950tl	90	21
41 and above	22	5	4951tl-6600tl	41	10
Marital Status (n=387)			6601tl-8250tl	17	4
Married	90	24	8251tl-9900tl	3	7
Single	297	76	9901tl and above	4	1
Education Status (n=428)			Income Group (n=428)		
Primary	5	1	Low	63	14
Secondary	9	2	Lower-Middle Income	100	23
High School	75	17	Middle Income	193	45
Associate Degree	104	25	Upper Middle Income	58	14
Undergraduate Degree	204	48	High	14	4
Postgraduate Degree	5	7		•	
Activity Type (n=432)			Activity Area (n=434)		
Individual (solo)	179	41	Outdoor	200	46
Group (with a team)	253	59	Indoor	234	54

Source: Authors

In addition to the demographic information presented in Table 1, the type of physical activity of the participants has also been identified. The most common activities were listed as fitness, hiking, mountaineering, dance. football. basketball, mixed martial sports, bowling, cycling, volleyball, swimming, skiing. The least performed activities are tennis, table tennis, kickboxing, pinball, handball. golf, diving, billiards, paragliding, archery, horse riding and athletics, respectively. Participants stated that they carried exercise "three days a week", "every 15 days", "once a month" or "daily".

Explanatory factor analysis was used for construct validity. The purpose of the explanatory factor analysis (EFA) is to test whether the items represent that structure. In factor analysis, each subscale should consist of at least three factor items, and one item should load only one factor (value).

However, if the items load on more than one factor and extraction values (how much each item affects the total factor) is below 0.40, re-analysis is recommended without including those items in the scale (Büyüköztürk, 2013, p.135; Sipahi, Yurtkoru, & Çinko, 2010, p. 81). Accordingly, using the principal components method and the Varimax conversion method, factor structures with an eigenvalue above 1 (no load value differences between the items exceeding 0.200) were preferred (Büyüköztürk, 2013, p. 135). In the next stage of the analysis process, considering the relevant criteria, factor analysis was performed for each variable separately. The findings are included in Table 2.

In the first stage, factor analysis related to flow experience with two subscales was carried out (balance between challenges and skills and absorption in the activity). In this process, the analysis took place in two stages. In the first-round analysis, it was determined that the extraction values of the two items were below 0.40 for balance between challenges and skills. (Sipahi et al., 2010, p. 81). This was considered as an appropriate value to exclude these items from the analysis. The second round of analysis was carried out after the two items mentioned were removed. The balance between the challenges and skills of the flow experience scale in EFA was gathered under 10 items and absorption in the activity under 8 items and two factors.

In the second stage, we conducted factor analysis with two subscales positive mood and negative emotions. Each subscale is gathered under its own structure. In the third stage, EFA was applied to the self-efficacy scale consisting of 10 items. The results show that all items were collected under one subscale. In the fourth stage, EFA was applied to the life satisfaction scale and the analysis took place in two stages. In the first round analysis, it was determined that the extraction value of a substance was below 0.40 and therefore an item was removed. In the second round, life satisfaction was evaluated on four items. In the factor analysis process, Kaiser-Meyer-Olkin (KMO), which is a measure of the sampling adequacy of the data structure, and Barlett Sphericity tests, which are used to determine whether the data has a multivariate (interrelated) structure, were conducted (Cokluk, Sekercioğlu, & Büyüköztürk,



Table 2: Flow experience, emotional states, self-efficacy and life satisfaction factor analysis results

Items	Load*	Eigenvalue	Explained Variance	Mean	α
Balance between challenges and skills - 10 Items	.742560	5.972	33.180	3.92	.915
Absorption in the Activity - 8 items	.758544	4.355	24.197	3.88	.885
Kaiser-Meyer-Olkin Sample Adequacy: 95%; Chi-Square for Bascale: .939; total explained variance: 57.38%	rtlett's Spherici	ty Test: 4549.27	9; sd:153; p<	0.0001; α Co-efficie	nt for the
Positive Emotional State - 10 Items	.811711	5.853	29.264	3.84	.865
Negative Emotional State - 10 Items	.803562	5.073	25.367	2.01	.881
Kaiser-Meyer-Olkin Sample Adequacy: 91 %; Chi-Square for B scale: .835; Explained Total variance: 54.63%	artlett's Spheric	ity Test: 4501.03	30; sd:190; p<	0.0001; α Co-efficie	nt for the
Self-Efficacy - 10 Items	.781662	5.301	53.007	3.79	.900
Kaiser-Meyer-Olkin Sample Adequacy: 92%; Chi-Square for B scale: 53%	artlett's Spheric	ity Test: 2014.9	74; sd:45; p<	0.0001; α Co-efficie	nt for the
Life Satisfaction- 4 Items	.882803	2.891	72.267	3.22	.870
Kaiser-Meyer-Olkin Sample Adequacy:82%; Chi-Square for Ba 72%	rtlett's Sphericit	y Test: 853.919	; sd:6; p<0.00	01; Explained Total	variance;

*The largest and smallest factor of the items is the load ranges.

Source: Authors

2012, p. 219). KMO value is expected to be higher than 0.50 and Barlett test results should be significant to evaluate whether the data set is suitable for factor analysis (Hair et al., 2010). Bartlett's spherical test values of KMO and data in Table 2 show that the scales used are suitable for factor analysis. Based on the determined results, it can be said that the structure validity of the flow experience scale adapted to Turkish and other scale structures (It has been determined that the structure/structures to be measured are measured by those items/dimensions) (Erkuş, 2009, p. 135).

Correlation analysis results to determine the relationship between the variables are given in Table 3. The results show that life satisfaction has a significant relationship with self-efficacy (r=.600 p<.01), negative emotion (r=-0.093 p<.01), negative emotion (r=0.299 p<.01), absorption in the activity (r=0.392 p<.01), balance between challenges and skills (r=.401 p<.01). There is a positive significant correlation between negative mood of self-efficacy (r=-0.170 p<.01), positive mood (r=.388 p<.01), absorption in the activity (r=.501 p<.01), the balance between challenges and skills (r=.541 p<.01). In addition, the results show that there is a positive correlation between positive mood and the balance between challenges and skills (r=.388 p<.01) and absorption in the activity (r=.435 p<.01)and a negative correlation between negative mood and the balance between challenges and skills (r=-.266 p<.01) and absorption in the activity (r=-.179 p<.01). A significant negative correlation was found between positive mood (r = -.184 p < .01) and negative mood. Finally, there seems to be a positive linear and high correlation between balance between challenges and skills and absorption in activity (r = .746 p < .01). It is undesirable to have a coefficient of .90 and above for the expressions that are tested to be related to each other (Hair et al., 2010). Therefore, it can be said that these two subscales, which are not independent from each other, do not have the same meaning.

Table 3: Table of correlation values between variables

		1	2	3	4	5	Mean	Std. Deviation
1	Balance between Challenges and Skills						3.91	.77
2	Absorption in the Activity	.746**					3.93	.77
3	Positive Emotional State	.388**	.435**				3.84	.80
4	Negative Emotional State	266**	179**	184**			2.01	.95
5	Self-Efficacy	.541**	.501**	.388**	170**		3.78	.71
6	Life Satisfaction	.401**	.392**	.299**	093**	.600**	3.22	.92

** For all co-efficients: p<0.01

Source: Authors

Regression analysis was applied to test the research hypotheses. Multiple regression analysis results performed to determine the effect of flow experience and emotions on self-efficacy are summarized in Table 4.

Table 4: Regression analysis results regarding the effect of flow experience and emotion on self-efficacy

	- 1 0 - 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Standardized co- efficient	t-value	Meaning level	Related Statistics		
	В	Std. Error	Beta			Tolerance	VIF	CI
(Constant)	1.332	.204		6.532	.000			1.000
Balance between Challenges and Skills	.323	.056	.347	5.752	.000	.422	2.368	5.087
Absorption in the Activity	.149	.056	.161	2.652	.008	.417	2.396	13.029
Positive Emotion	.162	.039	.181	4.110	.000	.794	1.260	17.583
Negative Emotion	012	.031	016	381	.703	.919	1.089	22.856
Dependent Variable: Self-Efficacy DW: 1.838		Model: R=0.584; R ² =0.341; Adjusted R ² =0.335; F=55.524, p<0.0001						

Self-Efficacy= 1.332 + 0.323*Balance between challenges and skills + 0.149*Absorption in the activity + 0.162*Positive Emotion

Source: Authors

According to the model, 33.5% of the total variance related to the dependent variable (self-efficacy) is explained by independent variables (flow experience and emotional state). (F: 55.524 p<0.0001). The constant term was found to be 1.332. This means that even if the independent variable is zero, 1.332 unit of value is obtained for self-efficacy.

One unit increase in balance between challenges and skills increases self-efficacy by .323 units, while one unit increase in absorption in the activity increases self-efficacy by .149 units. However, one unit increase in positive emotion increases self-efficacy .162 units. Based on these results, H1a, H1b and H2a hypotheses were accepted. Since the negative emotion did not have a significant effect on self-efficacy (t =-. 381; p> 0.05), the H2b hypothesis was rejected.

When Table 5 is examined, the model was found significant (F: 47.351 p <0.0001). 18.9% of the total

variance related to the dependent variable, ie life satisfaction, is explained by the flow experience subscales and emotional states. The constant term was found to be .709. This means that even if the arguments are zero, .709 units of value are obtained for life satisfaction. One-unit increase in balance between challenges and skills increases life satisfaction by .277 units, while one-unit increase in adopting activity increases life satisfaction by .191 units. However, one-unit increase in positive emotions increase life satisfaction by .165 unit.

According to the model, only negative emotions did not have statistically significant correlation life satisfaction. Three of the independent variables are statistically significant in affecting life satisfaction.

Based on this result, 'balance between challenges and skills' (t: 3.478; p <0.000), 'absorption in the activity' (t: 2.398; p <0.000) and 'positive emotions' (t: 2.964; p <0.000) may have an impact on the life

Table 5: Regression equality test for flow experience and emotional situations satisfaction

	- 10-11 01-11-11-11		Standardised co- efficient		Meaning Level	Related Statistics		
	В	Std. Error	Beta			Tolerance	VIF	CI
(Constant)	.709	.289		2.454	.015			1.000
Balance between challenges and skills	.277	.080	.232	3.478	.001	.422	2.368	5.067
Absorption in Activity	.191	.080	.161	2.398	.017	.417	2.396	13.029
Positive Emotional State	.165	.056	.144	2.964	.003	.794	1.260	17.583
Negative Emotional State	.023	.044	.023	.519	.604	.919	1.089	22.856
Dependent variable: Life Satisfaction DW: 1.725		Model: R=0.443; R ² =0.197; Adjusted R ² =0.189; F=26.259, p<0.0001						

Life Satisfaction = 0.709 + 0.277* Balance between Challenges and Skills + 0.191*Absorption in Activity + 0.165* Positive Emotion

Source: Authors



satisfaction of the participants. According to Table 5, H3a, H3b and H4a hypotheses are supported. H4b is not supported.

Variance Inflation Factor (VIF) and Durbin-Watson (DW) statistics are two approaches to test the explanatory variables and they should not be multiple linear dependent and sequential dependent in the regression model. VIF tests for multiple linear dependencies between explanatory variables and if VIF = 1 indicates that multiple linear dependencies disappear and 1 <VIF≤5 indicates moderate multiple linear dependencies (Özdamar, 2011, p. 526). The Durbin-Watson coefficient is used to test autocorrelation (whether the error terms show consecutive dependency) and the DW value is expected to be between 1.5 and 2.5 (Kalaycı, 2010). DW values (1.838- 1.725) ranging from 1.5 to 2.5 indicate no autocorrelation. DW values (1.838- 1.725) ranging from 1.5 to 2.5 indicate no autocorrelation. Other coefficients to be considered are the tolerance value (TV = Tolerance Value = 1-R2) and the condition index (CI = Condition Index). The tolerance value indicates whether there is a connection problem like VIF value and if it is greater than .10, it indicates that there is no multiple connection problem between variables (Sipahi et al., 2010, p. 170; Çokluk et al., 2012, p. 36). According to the models in Table 4 and Table 5, there is no multiple connection problem, since the tolerance value between each variable and self-efficacy and life satisfaction is in the range of .417-.919. In the condition index, it is an indication of whether there is a multiple connection problem. In addition, if the CI value is between 10 and 30, then it is at the "medium level", and if it is greater than 30, then it indicates "high level" multiple linear connection problem (Çokluk et al., 2012, p. 36).

According to both models, the balance between challenges and skills and self-efficacy (5.087) and life satisfaction (5.067) do not show multiple direct connectivity problems. In addition, it can be said that the multiple connection problem is at a

medium level since there is a condition index value (in the range of 13.029-22.856) between the variables and self-efficacy and life satisfaction.

When Table 6 is examined, the model created was found significant (F: 51.162 p <0.0001). According to the model, 35.8% of the total variance related to the dependent variable (life satisfaction) is explained by self-efficacy (Büyüköztürk, 2013, p. 98). The constant term was found to be 0.316. This means that even if the independent variable is zero, a value of 0.316 is obtained for life satisfaction. An increase in self-efficacy increases life satisfaction by 0.769 units.

Considering the model found significant, self-efficacy is statistically significant in influencing life satisfaction. Based on this result, it can be said that self-efficacy (t: 15.571; p <0.000) has a positive effect on life satisfaction. H5 hypothesis is supported for the model according to Table 6.

Considering the VIF value according to the findings in Table 6, there is no multiple linear dependence between self-efficacy satisfaction (VIF = 1). The DW value (1.765)ranging from 1.5to 2.5indicates autocorrelation. Considering the tolerance value (TV = 1.000) between self-efficacy and life satisfaction, there is no multiple connection problem. The condition index (CI) suggests that the multiple connection problem between self-efficacy and life satisfaction (10.615) is at a medium level.

4. Conclusion

This study has been carried out on individuals participating in recreational activities (being active in indoor and outdoor areas) and aims to understand the reasons why individuals participate in activities. The research is based on the Social Cognitive Theory, which is related to Flow Theory and behaviors. We identified the role of the flow experiences, positive and negative emotions of individuals performing recreative activities on self-efficacy. In addition, we also looked in to the effects of flow experiences, positive

Model	- 10 2000	Non-standardised co- efficient		t-value	Meaning Level	Related Statistics		
	В	Std. Error	Beta			Tolerance	VIF	CI
(Constant)	.316	.190		1.664	.097			1.000
Self- Efficacy	.769	.049	.600	15.571	.000	1.000	1.000	10.615
Dependent Variable: Lit DW: 1 765	fe Satisfaction	Model: R=0	.600; R ² =0.359; A	Adjusted R	² =0.358; F=5	1.162, p<0.0	001	

Table 6: Regression equality test regarding self-efficacy and life satisfaction

Life Satisfaction= 0.316 + 0.769* Self- Efficacy

Source: Authors

and negative emotions and self-efficacy on life satisfaction. The research is focused on the relationship structure of each variable and compared the purpose of the research through the relevant analysis.

Firstly, the participants who are active in open and closed areas were described. Based on the findings, data varies considerably in terms of different cities, and indoor and outdoor activities. The results of are more generalizable for individuals engaged in recreational activities. In the next stage, research hypotheses were tested. In this process, the balance between the challenges and skills that constitute the subscale of the flow experience of individuals participating in recreation activities was expected to positively affect the self-efficacy. The findings supported this expectation. In other words, findings show that the balance between challenges and skills leads to an increase in self-efficacy.

This result shows that the individual who undertakes the activity knows what to do, feels that the activity and his/her skills are compatible and can meet the requirements of the event. The individual also believes that he/she can cope with the difficulties. At the same time, absorption in the activity, not understanding how time passes and being completely immersed in the activity increases the belief that the individual can transform the skills into action. Theoretically, the research echoes similar results with the work of Hong et al. (2012), Mesurado et al. (2016) and Tandon (2017). In addition, the findings are in line with Reid's (2004) study which determined that the feeling of control, one of the general abilities of the flow experience, increased self-efficacy. Therefore, in this study, the balance between challenges and skills, including the sense of control, absorption in the activity affects self-efficacy.

Secondly, during the process of testing hypotheses, it was expected that individual's self-efficacy and negative emotional states would negatively affect their self-efficacy. Based on the results of the analysis, only positive emotions support this expectation. It was determined that the effect of emotions on self-efficacy insignificant. In other words, although the positive emotions caused an increase in self-efficacy, negative emotions did not affect self-efficacy as expected. This result shows individual who joins recreational activities believes that the emotional, strong, enthusiastic, proud, vigilant, inspired, determined, careful and active moods sufficient. On the other hand, negative emotional

states such as being troubled, sad, nervous, anxious, did not affect the self-efficacy belief. Yalnız's research (2014) with university students supports the findings regarding the positive effect of positive emotional state on self-efficacy. His study revealed that the positive emotions of the students had a positive effect on their self-efficacy, while their negative affect had a negative effect on their self-efficacy. However, the results contradict the study in terms of negative emotional states. Unlike this study, his research was directly student-oriented and this may be the reason for this contradiction.

Thirdly, it was expected that balance between challenges and skills and the absorption in activity would positively affect the life satisfaction. The findings obtained support this expectation. This result shows that the individuals who fulfill the activity know what to do during the event, feel that the activity and skills are compatible and that they can meet the requirements of the event, and believe that they can cope with the difficulties. When the related literature is examined, the results of Peterson, Park and Seligman (2005), Chen et al. (2010) and Ayazlar (2015) are in line with the results of this research.

Fourth, in testing hypotheses, it was expected that positive emotional states of the individuals would affect their life satisfaction positively whereas their negative emotional states would negatively affect their life satisfaction. The results of the analysis show that positive emotions increase life sense, while negative emotions do not significantly affect life satisfaction. Negative emotions did not support this expectation and its effect on life satisfaction was found insignificant. In other words, the findings show that although the positive emotions cause an increase in life satisfaction, and the negative emotion do not decrease life satisfaction. This result shows that if the active individual has an excited, strong, enthusiastic, proud, alert, inspired, determined, careful and active emotional state, this will contribute to the life satisfaction. On the other hand, this finding indicates that when the individual has negative feelings such as distressed, sad, nervous, anxious, this situation does not affect life satisfaction positively or negatively. From a theoretical point of view, the positive effect of positive emotions on life satisfaction align with the research of Deniz et al. (2012) and Kuppens et al. (2008).

Fifth, self-efficacy of individuals was expected to positively affect their life satisfaction. The findings support this expectation. In other words, findings



show that self-efficacy increases life satisfaction. From a theoretical point of view, the studies of Sahranç (2008), Telef (2011), Çakar (2012) and Capri et al. (2012) examine the relationship between self-efficacy and life satisfaction and support the findings of this research.

Based on the relevant findings and inferences, some suggestions have been developed for the enterprise or operators. Within the scope of the flow experience, balance between challenges and skills can be taken into account by the companies that work with intensive business timetable (for example: businesses where the service is offered on site, such as hotels, restaurants). As the flow experience will increase the belief that the individual will be able to fulfill one's duties in the business life, the performance will also increase. This can be achieved by stripping the working individual from the busy work schedule for a while and encouraging participation in recreational activities. It may even play a greater role in the belief that the individual performing the activity will be more prone to positive emotions. On the other hand, activities should be carried out to increase the self-efficacy beliefs of individuals who perform the activity. For example, the individual's successful performances in the past may have increased self-efficacy (Bandura, 1977). When the individual has successful experiences, there is an increase in self-efficacy. Or the individual's active, enthusiastic and exciting emotional situations (Bandura, 1977) while performing the activity contribute to self-efficacy. This causes an increase in any action performance. In this regard, businesses can increase the life satisfaction of the employee with a self-efficacy belief. A productive, happy employee with life-satisfaction can be provided with different experiences. For example, organizing a sports organization such as football or basketball once a week, or organizing a regular course can be helpful for increasing the self-efficacy of employees.

A further suggestion can be made for managers of sports clubs, fitness centre operators, course managers (such as swimming, dancing) and public managers. More individuals should be directed to do physical activities for themselves, regardless of whether they are indoor or outdoor activity. If necessary, they should take an initiative together (such as public awareness or raising awareness with collective organizations). It is necessary to ensure that individuals use their abilities and skills to ensure that they develop positive emotions. From a social perspective, training of

individuals who are trying to develop a healthier and conscious self-development has paramount importance because these are the basic needs for individuals in life (Özer & Topaloğlu, 2008). Therefore, self-realization is an ever-ending need of the individual.

Lastly, the study has a number of limitations. The variables (flow experience, positive and negative emotional states, self-efficacy and life satisfaction) used in the research make up the structural limitation of this study. There are some restrictions on the data collection process of the research. Due to the financial limitations, research data were collected from Mersin and nearby provinces.

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Journal of multidisciplinary academic tourism

2021, 6 (2): 127-142 https://doi.org/10.31822/jomat.2021-6-2-127

INFO PAGE

ISSN: 2645-9078

How do flow experiences and emotional states of individuals participating in recreational activities affect their self-efficacy perceptions and life satisfaction?

Abstract

This research is based on social cognitive theory and aims to determine the effects of flow experience and positive and negative emotional states of individuals participating in recreational activities on their self- efficacy. The study also aimed to explore the effect of flow experience, self-efficacy, and positive-negative emotions on individuals' life satisfaction. The data were collected through a valid and reliable scale. Convenient sampling method was employed and 434 valid questionnaires were collected between January and April 2018. Hypotheses were tested by multiple regression analysis. Results show the balance between challenges and skills subscale of flow experience and positive emotional state affect self-efficacy. In addition, life satisfaction is affected by by flow experience, positive emotions and self-efficacy. Based on the relevant findings and inferences, some suggestions have been developed for the enterprise or operators. Within the scope of the flow experience, balance between challenges and skills can be taken into account by the companies that work with intensive business timetable (for example: businesses where the service is offered on site, such as hotels, restaurants). A further suggestion can be made for managers of sports clubs, fitness centre operators, course managers (such as swimming, dancing) and public managers. More individuals should be directed to do physical activities for themselves, regardless of whether they are indoor or outdoor activity.

Keywords: Flow Experience, Positive Emotions, Negative Emotions, Self-Efficacy, Life Satisfaction

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Full Name	Author contribution roles	Contribution rate
Gamze Eryılmaz:	Conceptualization, Methodology, Software, Validation, Formal analysis, Investigation, Resources, Data Curation, Writing -	50%
	Original Draft, Writing - Review & Editing, Visualization, Supervision,	
Kamil Unur:	Conceptualization, Methodology, Validation, Formal analysis, Investigation, Data Curation, Writing - Original Draft, Writing - Review & Editing, Visualization, Supervision,	25%
Yılmaz Akgündüz:	Conceptualization, Methodology, Validation, Formal analysis, Investigation, Data Curation, Writing - Original Draft, Writing - Review & Editing, Visualization, Supervision,	25%

Author statement: Author(s) declare(s) that All procedures performed in studies involving human participants were in accordance with the ethical standards of the institutional and/or national research committee and with the 1964 Helsinki declaration and its later amendments or comparable ethical standards. **Declaration of Conflicting Interests:** The author(s) declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article

This paper does not required ethics committee report

Justification: This research was conducted before January 1, 2020. For this reason, it is exempt from "ULAKBIM TRDizin" criterion.