

Examining the Relationship Between Metacognitive Learning Strategies and Positive-Negative Life Experiences in Adolescents in Terms of Cognitive and Emotion Regulation Mediator Variables

Serhat Arslan¹, Muazzez Demirbağ²

| ARTICLE INFO | ABSTRACT |
|--|--|
| Article History: Received 01.11.2023 Received in revised form 29.02.2023 Accepted Available online 12.03.2024 | The aim of this study was to examine the relationship between metacognitive learning strategies, positive– negative life experiences, and cognitive emotional regulation in adolescents. In addition, adolescents' metacognitive learning strategies, positive– negative life experiences, and cognitive emotional regulation variables were examined by addressing demographic variablessuch as gender, grade level, family income level, and family attitudes. The sample of the study was 623 students in Ereğli district of Konya. Because of the research, there is a significant difference between adolescents' positive and negative life experiences and grade level. There was no significant difference between adolescents' positive and negative life experiences and grade level. There is a significant difference between adolescents' positive and negative life experiences and grade level. There is a significant difference between adolescents' positive and negative life experiences and grade level. There is a significant difference between adolescents' positive and negative life experiences and grade level. There is a significant difference between adolescents' positive and negative life experiences and parental attitude variables. There was no significant difference between adolescents' positive and negative life experiences and parental attitude variables. |
| | ©TUARA Journal. All rights reserved Keywords: ¹ Cognitive regulation, emotional regulation, adolescent, correlation, positive negative life experiences, metacognition. |

INTRODUCTION

Metacognition

Flavell used the term "metacognition" for the first time in 1976. Flavell categorized metacognition into three categories. These are individual variables, task variables, and strategy variables. It is an individual variable that would be more useful to study by taking notes instead of studying by reading. The individual's thinking that it would take less time to take notes in the science course than in the math course is the task variable. Deciding which strategy to use is a strategy variable (Akış, 2022; Özsoy, 2008).

Metacognition provides students with the opportunity to take responsibility for learning. It gradually frees students from dependence on the guide. It makes the student independent in the learning process. When a student with metacognitive thinking skills encounters a problem, think about what they can do to find a solution, make plans, and manage their time (Kalemkuş, 2021). At the end of this process, a self-assessment is conducted (Yeşilyurt, 2021). In experimental studies revealing metacognitive skills improved (Özsoy, 2008). Metacognition alone is not enough to ensure success, but it is an important tool for success (Yeşilyurt, 2021).

Methods that can be applied to develop metacognition are as follows:Identify what you know and what you don't know: The individual realizes their knowledge, missing knowledge, and what they need to learn about the subject. They acquire new knowledge through this method. The individual uses his/her own ways of thinking when expressing his/her thoughts aloud. In this way, they would generate original thoughts and this would cause them to think more. Planning and self-monitoring: It is easier for an individual to follow a plan in which he/she chooses his/her own materials, time, and topic rather than a standardized plan made by someone else.

Keep a thinking diary: It is a diary in which individuals write the stages they go through during the thinking process. Questioning the thinking process: Discussions at the end of the process in which the individual evaluates this process and sheds light on other processes (Yeşilyurt, 2021).

Positive- Negative Life Experience

Life experiences are unique to each person because we perceive life events differently. An individual may have multiple life experiences at a random moment, but may not always be aware that they are experiencing such experiences. Some experiences may have a beginning and an end point, whereas others may develop as

¹Necmettin Erbakan University, serhat.arslan@erbakan.edu.tr, orcid.org/0000-0003-4422-8421

² Necmettin Erbakan University, demirbagmuazzez@gmail.com, 0000-0003-0192-1066

a process (Mutlu, 2015). Because adolescence is a time of change in many areas, these experiences are common (Öztürk, 2020).

Risky behaviors facilitate adaptation to the changes that occur during adolescence, even if negatively (Öztürk, 2020). Some of the risky behaviors during adolescence include alcohol, smoking, substance abuse, suicidal tendencies, dropping out of school, running away from home, and gaming (Can, 2023). A risky behavior can lead to other risky behaviors. Higher level of occurrence during adolescence (Öztürk, 2020).

Risk factors that increase the likelihood of negative outcomes in adolescents Risk factors can be categorized under three headings: individual, family, and environmental. Individual risk factors include gender, temperament, and social skill deficiencies (Yoldaş & Demircioğlu, 2019). History of substance or alcohol abuse, criminal history (Alikaşifoğlu & Ercan, 2009), and divorce or death of parents (Yoldaş & Demircioğlu, 2019). Environmental risk factorsinclude low socioeconomic status (Alikaşifoğlu & Ercan, 2009), negative friend groups, and negative social media channels (Can, 2023).

Protective factors that reduce or end the occurrence of a negative situation (Alikaşifoğlu & Ercan, 2009). Protective factors can be divided into internal and externalfactors. Intrinsic factors: intelligence, academic achievement, positive outlook, social skills, and psychological resilience (Karaırmak, 2006). Extrinsic factors: high educational level of parents, high socioeconomic status (Ateş, 2023), strong family communication, social activities (Can, 2023), and being educated in a good school (Karaırmak, 2006).

Cognitive and Emotional Regulation

There is no common view on the definition of emotion in the literature. In this regard, Lazarus (1991) defined emotion by emphasizing three main points: an emotion, physiological disturbance or change; a tendency to behave in an unexpressed manner; and a subjective experience, often referred to as affect.

Emotion regulation plays a role in an individual's personal development and communication. Emotions are expressed not to the extent of what is felt but to the extent of people's reactions. Because of the feedback received from Onat and Otrar (2010).

Emotions are often useful. In cases where it is not considered useful, the concept of emotion regulation emerges. Negative emotions can be regulated and positive emotions (Duy & Yıldız, 2014). Emotion regulation can also manifest as hiding emotions. The behavior of hiding emotions emerges in adulthood. For example, when a child is scolded by his teacher, he becomes upset, and this can be seen in his behavior. When an adult is reprimanded by his/her boss, he/she still gets upset, but does not want to show this emotion and hides it (Atalar & Atalay, 2018).

When an adult is reprimanded by his/her boss, he/she still gets upset, but does not want to show this emotion and hides it. Positive emotions are welcomed, and life is meant to be built on positive emotions. Negative emotions are seen as something that should not be experienced and are suppressed and not expressed (Kelek, 2020). Contrary to what the individual thinks, suppressive behavior does not eliminate emotions and does not relieve the individual (Akbulut, 2018). The point here is not to try to experience positive emotions all the time. It is being aware of and accepting all kinds of emotions. In particular, to accept negative emotions, to be aware of what this emotion is telling us, and to regulate this negative emotion (Kelek, 2020).

Cognitive strategies are used in a situation, and emotional reactions are then given (Çelik & Kocabyk, 2014). Cognitive processes are important for exploring emotions. Cognitive emotion regulation strategies are divided into adaptive and maladaptivestrategies. Adaptive strategies include recognizing, accepting, and regulating emotions. Maladaptive strategies include looking for blame and suppressing emotions (Rıza, 2016).

Adolescence is a period of development and change in many aspects of an individual's life. As the adolescent attempts to adapt to this period of life, the likelihood of risky behavior increases. There are risk factors that bring you closer to these risky behaviors and protective factors that keep you away from them (Gençtanırım Kurt & Ergene, 2017). Scientific studies have concluded that the prefrontal cortex develops significantly from adolescence to young adulthood (Bernheim, Halfon & Boutrel, 2013). As the prefrontal cortex of adolescents continues to develop during adolescence, their higher-order thinking skills (metacognition) also develop at the same time (Polat, Akay & Aydın, 2021).

In this respect, having a healthy mindset is important for healthy emotional regulation in order to be a healthy individual. Healthy emotion regulation significantly affects positive/negative life. Within the scope of the original value of the research, it is very important to examine the relationship between thought, emotion, and behavior. It reflects the original value of the research in terms of determining the potential damages that adolescents cause to themselves and their environment because of their risky behaviors.

The original value of this study is to examine metacognition in relation to adolescents' positive– negative life experiences and cognitive emotion regulation in terms of various demographic variables.

Method

Sample Group

The sample group of the research is 9th, 10th, 11th, and 12th grade high school students in Konya Ereğli district.

The sample of the study consists of 623 high school students. The sample consisted of 370 girls (60%) and 253 boys (40%). The average age of the sample was 15.59 (SD=1.4). 222 students were in the 9th grade, 110 in the 10th grade, 158 in the 11th grade, and 133 in the 12th grade. Ethical approval was obtained from the Necmettin Erbakan University Social Sciences and Humanities Research and Publication Ethics Committee. The scales and demographic information forms used in the research were converted into a single form in face-to-face and Google Forms and shared to reach individuals via e-mail, social media, and other online data platforms. Data were collected face-to-face and online, and only volunteers were asked to participate in the study. Participants were informed that they could leave the study at any time.

Data collection tools

Positive and Negative Life Experiences Scale (Adolescent form)

Fernando N'uñez-Regueiro et al. (2021); and developed and validated the Positive and Negative Life Experiences (Adolescent form) scale, an 11-item instrument that allows researchers to measure adolescent stressors more validly and efficiently than existing scales. The Positive and Negative Life Experiences (Adolescent form) scale was validated for construct validity (factor structure, measurement invariance, and composite reliability) in a sample of French high school adolescents (N = 1513). Overall, the Positive and Negative Life Experiences (Adolescent form) scale offers a viable alternative to existing methods for conducting quantitative research on adolescent stress processes, especially those related to school dropout and dropout processes.

Metacognitive Learning Strategies Scale

Flaming Wang et al. (2021) investigated the validity of the Cognitive and Metacognitive Learning Strategies Scale for adolescents' learning processes. 698 Chinese high school seniors underwent exploratory and confirmatory factor analysis, reliability analysis, measurement invariance across gender groups, and criterionrelated validity. The results showed that the adapted scale was reliable and valid. A model with four specific factors. Because of the exploratory factor analysis, 17 items were analyzed. For the 17-item final EFA model, the Kaiser–Meyer– Olkin value was .909 and Bartlett's test of sphericity was significant ($\chi 2$ (136) = 2946.14, p < .001). The four factors explained 58% of the total variance. The four factors obtained were rehearsal, elaboration and organization, critical thinking, and metacognitive self-regulation. The correlations between the factors ranged between .236 and .613.

Cognitive and Emotional Regulation Scale

Within the scope of reliability studies, Cronbach's alpha, item-total, item-remainder, item-discrimination, and test-r-test methods were used. Because of the statistical analysis, Cronbach Alpha value α =.784 and test-r-test reliability coefficient "r=. 1.00". The item-total correlation values of the scale are ".188, and the item residual correlation values range.392". Because of the item discrimination analysis, we concluded that the discrimination of each item was high. The results of the analysis revealed that the Cognitive Emotion Regulation Scale is a valid and reliable measurement tool (Onat & Otrar, 2010).

Findings

Positive and negative life experiences

Table 1. ANOVA Table of Adolescents' Positive and Negative Life Experiences and Gender Variables

| Group Statistics | | | | | | | |
|------------------|-----|-------------|-----------|------------|---------|--|--|
| | | | Std. | Std. Error | Sig.(2- | | |
| Gender | Ν | Average | Deviation | Mean | Tailed) | | |
| 1 | 318 | 12,229 6 | 3,36630 | ,18877 | ,003 | | |
| 2 | 261 | 13,053 6 | 3,11402 | ,19275 | ,002 | | |

There was no significant difference between adolescents' positive and negative life experiences and grade level.

Arslan, S., & Demirbağ, M. (2024). Examining the relationship between metacognitive learning strategies and positive-negative life experiences in adolescents in terms of cognitive and emotion regulation mediator variables. The Universal Academic Research Journal, 6(2)108-117.

| Table 2. ANOVA Table of Adolescents' Positive and Negative Life Experiences and Grade Level Variables |
|---|
|---|

| | Sum of Squares | Df | Mean Square | F | Sig. | |
|----------------|----------------|-----|-------------|-------|------|--|
| Between Groups | 46,794 | 3 | 15,598 | 1,455 | ,226 | |
| Within Groups | 6164,045 | 575 | 10,720 | | | |
| Total | 6210,839 | 578 | | | | |

There was no significant difference between adolescents' positive and negative life experiences and grade level.

| | Sum of | | Mean | | |
|----------------|----------|-----|--------|-------|------|
| | Squares | Df | Square | F | Sig. |
| Between Groups | 59,172 | 2 | 29,586 | 2,770 | ,063 |
| Within Groups | 6151,667 | 576 | 10,680 | | |
| Total | 6210,839 | 578 | | | |

There is no significant difference between adolescents' positive and negative life experiences and the income level variable

Table 4. ANOVA Table of Adolescents' Positive and Negative Life Experiences and Parental Attitude Variables

| | Sum of | | Mean | | |
|----------------|----------|-----|--------|-------|------|
| | Squares | Df | Square | F | Sig. |
| Between Groups | 130,508 | 5 | 26,102 | 2,460 | ,032 |
| Within Groups | 6080,331 | 573 | 10,611 | | |
| Total | 6210,839 | 578 | | | |

There is a significant difference between adolescents' positive and negative life experiences and parental attitudes.

Cognitive and Emotional Regulation

Table 5. ANOVA Table of Adolescents' Cognitive and Emotion Regulation Levels and Gender Variables

| | | | | Std. | Std. Error |
|------------|--------|-----|---------|-----------|------------|
| | Gender | Ν | Average | Deviation | Mean |
| Emotion | 1 | 317 | 11,6751 | 3,19193 | ,17928 |
| regulation | 2 | 261 | 11,8429 | 3,51292 | ,21744 |
| Cognitive | 1 | 318 | 14,0346 | 3,59662 | ,20169 |
| regulation | 2 | 260 | 13,6731 | 3,75464 | ,23285 |

There was no significant difference between the cognitive and emotion regulation levels of adolescents and the gender variable.

 Table 6. ANOVA Table of Adolescents' Cognitive and Emotion Regulation Levels and Class Variables

| | | Sum of Squares | Df | Mean Square | F | Sig. |
|----------------------|---------------------------|----------------|-----|-------------|-------|------|
| Emotion | Groups Between | 13,920 | 3 | 4,640 | ,415 | ,742 |
| | Within Groups | 6418,204 | 574 | 11,182 | | |
| | Total | 6432,125 | 577 | | | |
| Cognitive regulation | Groups Between | 68,608 | 3 | 22,869 | 1,704 | ,165 |
| | Within Groups Total | 7701,918 | 574 | 13,418 | | |
| | | 7770,526 | 577 | | | |

There was no significant difference between the cognitive and emotion regulation levels of adolescents and the class variable.

Table 7. ANOVA Table of Adolescents' Cognitive and Emotion Regulation Levels and Parental Attitude Variables

| | | Sum of Squares | Df Mean | n Square | F | Sig. |
|-----------------------|-------------------|----------------|---------|----------|-------|------|
| Emotion Regulation | Groups Between | 84,063 | 5 | 16,813 | 1,515 | ,183 |
| | Within | 6348,062 | 572 | 11,098 | | |
| | Groups Total | 6432,125 | 577 | | | |
| Cognitive regulation | Groups Between | 252,898 | 5 | 50,580 | 3,848 | ,002 |
| | Within | 7517,628 | 572 | 13,143 | | |
| | Groups Total | 7770,526 | 577 | | | |

There was no significant difference between adolescents' emotion regulation levels and parental attitude variables. There was a significant difference between adolescents' cognitive regulation levels and parental attitude variables.

| Table 8. Al | NOVA Table of Ad | lolescents' Cognitive and Em | otion Regu | lation Levels and Inco | ome Variables | |
|-------------|------------------|------------------------------|------------|------------------------|---------------|------|
| | | Sum of Squares | Df | Mean Square | F | Sig. |
| Emotion | Groups | | | | | |

| Emotion Regulation | Groups Between | 15,092 | 2 | 7,546 | ,676 | ,509 |
|-----------------------|-------------------|----------|-----|--------|------|------|
| | Within | 6417,032 | 575 | 11,160 | | |
| | Groups Total | 6432,125 | 577 | | | |
| Cognitive regulation | Groups Between | 12,172 | 2 | 6,086 | ,451 | ,637 |
| | Within | 7758,354 | 575 | 13,493 | | |
| | Groups Total | 7770,526 | 577 | | | |

There was no significant difference between adolescents' cognitive and emotion regulation levels and the income variable.

Table 9. Results of the Correlation Analysis

| | | Mls | pls | nls | er | Cr |
|-----|------------------------|--------|------|-----------|--------|--------|
| Mls | Pearson Correlation | 1 | ,207 | ** -,089* | ,172** | ,333** |
| | Sig. (2-tailed) | | ,00 | 0,037 | ,000 | ,000 |
| | Ν | 555 | 55 | 5 555 | 554 | 554 |
| Ple | Pearson Correlation | ,207** | | 1 -,032 | ,236** | ,303** |
| | Sig. (2-tailed) | ,000 | | ,447 | ,000 | ,000 |
| | N | 555 | 55 | 5 555 | 554 | 554 |
| Ne | Pearson Correlation | -,089* | -,03 | 2 1 | ,045 | -,078 |
| | Sig. (2-tailed) | ,037 | ,44 | 7 | ,286 | ,066 |
| | Ν | 555 | 55 | 5 555 | 554 | 554 |
| Er | Pearson Correlation | ,172** | ,236 | ** ,045 | 1 | ,330** |
| | Sig. (2-tailed) | ,000 | ,00 | 0,286 | | ,000 |
| | Ν | 554 | 55 | 4 554 | 554 | 553 |
| Cr | Pearson Correlation | ,333** | ,303 | ** -,078 | ,330** | 1 |
| | Sig. (2-tailed) | ,000 | ,00 | 066, 066 | ,000 | |
| | N | 554 | 55 | 4 554 | 553 | 554 |

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

Arslan, S., & Demirbağ, M. (2024). Examining the relationship between metacognitive learning strategies and positive-negative life experiences in adolescents in terms of cognitive and emotion regulation mediator variables. The Universal Academic Research Journal, 6(2)108-117.

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

(metacognitive learning strategies:mls, positive life experiences:ple, negative life experiences: nle, Emotion regulation: er, cognitive regulation:cr)

There is a significant difference between metacognition and positive life experiences.20 There is a significant difference between metacognition and negative life experiences .08. There is a significant difference between metacognition and cognitive regulation.17. There is a significant difference between metacognition and cognitive regulation.33 There is no significant difference between positive life experiences and negative life experiences. There is a significant difference between positive life experiences and negative life experiences. There is a significant difference between positive life experiences and emotion regulation.23 There is a significant difference between positive life experiences and cognitive regulation at the.30 level. There was no significant difference between negative life experiences and cognitive regulation. There is a significant difference between negative life experiences and cognitive regulation. There is a significant difference between negative life experiences and cognitive regulation. There is a significant difference between negative life experiences and cognitive regulation. There is a significant difference between negative life experiences and cognitive regulation. There is a significant difference between negative life experiences and cognitive regulation. There is a significant difference between negative life experiences and cognitive regulation. There is a significant difference between negative life experiences and cognitive regulation. There is a significant difference between negative life experiences and cognitive regulation. There is a significant difference between metacognitive regulation at .33 level.

Table 10. Regression Model of Metacognition and Positive and Negative Life Experience

| | | R | Adjusted | Std. Error |
|-------|-------------------|--------|----------|-----------------|
| Model | R | Square | R Square | in the Estimate |
| 1 | ,207ª | ,043 | ,041 | 12,03281 |
| 2 | ,222 ^b | ,049 | ,046 | 12,00124 |
| | | | | |

a. Predictors: (Constant), ple

b. Predictors: (Constant), ple, and ne

When the regression analysis of metacognition and positive and negative life experiences is performed, the explanation rate .04 for metacognition. When the cognitive emotion regulation mediator variable is added, the summation level of the relationship between metacognition and positive –negative life experience is .12. The mediating variable of cognitive and emotion regulation explains metacognition at the level of .08.

Discussion and Conclusion

Positive and negative life experiences were analyzed in terms of gender, class, income level, and parental attitude. The results are as follows: There is a significant difference between adolescents' positive and negative life experiences and gender. This difference favors males.

In parallel with this research result, Bryce and Hawort (2002) examined the relationship between flow and life satisfaction based on leisure time activities and concluded that there are differences according to gender. ahin (2019) concluded that male students had a higher experience of physical neglect and abuse. Ulukol et al. (2014) reached a similar conclusion in their study. Negative life experiences were found to be higher in men than in women.

There was no significant difference between adolescents' positive and negative life experiences and grade level.

There is a significant difference between adolescents' positive and negative life experiences and parental attitude variables. Ulukol et al. (2014) concluded that the rate of negative experiences decreased as the educational level of parents increased. In this study, it was also observed that the prevalence of having at least one negative life experience was high in broken or extended families.

There is no significant difference between adolescents' positive and negative life experiences and income level. ahin (2019) concluded in his study that students with low income levels had higher negative life experiences and physical abuse than those in the middle and high income groups.

Cognitive and emotional regulation were examined in terms of the mediating variables of gender, grade, income level, and parental attitude. The results are as follows: There is no significant difference between the cognitive and emotion regulation levels of adolescents and the gender variable. Similar to this research result, Tuncal (2022) concluded that there was no significant difference in cognitive emotion regulation strategies according to gender. In parallel with this result, Neriman (2022) concluded that there was no significant difference between the use of cognitive emotion regulation strategies and the gender mediator variable. Likewise, supporting these results, Atalay and Özyürek (2021) concluded that emotion regulation strategies did not differ according to gender in their study of adolescents.

Unlike the research result, Bedirhanbeyoğlu (2018) and Kaya (2015) examined the sub-dimensions of the Cognitive Emotion Regulation scale with the mediating variable of gender. Because of these studies, there was a significant difference in the favor of women in some sub-dimensions and a significant difference in the favor of men in some sub-dimensions, it was concluded that there was no significant difference according to gender. Similar to this result, Zengin (2019) concluded that rumination in cognitive emotion regulation strategies was higher in women, whereas positive refocusing and blaming others scores were higher in men. In some sub-dimensions, it was concluded that there was no significant difference according to gender. Finally, in parallel with this result, a study conducted by Rza (2016)concluded that rumination, a cognitive emotion regulation strategy, was used more by women. There is a significant difference between the genders.

There was no significant difference between the cognitive and emotion regulation levels of adolescents and the class variable. Similar to this result, Yokuş and Kalaycıoğlu (2013) found no significant difference in the cognitive emotion regulation strategies of prospective music teachers according to their grade level. In contrast to these results, Aka (2011) used the Emotion Regulation Scale and Emotion Regulation Processes in his study with adults. We concluded that younger participants used the cognitive reappraisal sub-dimension more frequently than older participants. There was no significant difference between adolescents' emotion regulation levels and parental attitude variables. There was a significant difference between adolescents' cognitive regulation levels and parental attitude variables. In contrast to this result, Altan (2006), in a study conducted with preschool children aged 4-6 years and their mothers, examined the relationship between mothers' socialization and children's emotion regulation skills. It was concluded that emotion regulation skills were at the highest level when there was a moderate level of positive maternal behavior and warmth. In addition, Yaman (2018), in his study on children's emotion regulation skills, found that authoritarian parental attitudes had a negative effect and democratic parental attitudes had a positive effect.

There was no significant difference between adolescents' cognitive and emotion regulation levels and the income variable. Similar to this result, Şener (2020) examined the relationship between the cognitive emotion regulation subscale and income level.

References

- Aka, B. T. (2011). Perceived parenting styles, emotion recognition, and emotion regulation in relation to psychological well-being: Symptoms of depression, obsessive-compulsive disorder, and social anxiety [Doctoral dissertation]. Orta Doğu Teknik Üniversitesi, Ankara.
- Akbulut, C. A. (2018). Depresyonun duygu düzenleme süreçlerinin incelenmesi [Evaluating emotion regulation processes of depression]. Klinik Psikiyatri Dergisi, 21(2), 184-192. https://doi.org/10.5505/kpd.2018.24855
- Akış, A. (2022). Üstbilişsel stratejilerle desteklenen gerçekçi matematik eğitiminin üçüncü sınıf öğrencilerinin akademik başarıları, matematik tutumları ve üstbilişsel becerilerine etkisinin incelenmesi [Investigation of the effects of realistic mathematics education supportednby metacognitive strategies of the academic achievements, mathematics attitudes and metacognitive skills of third grade primary school students] [Doctoral dissertation]. Çukurova Üniversitesi.
- Alikaşifoğlu, M., & Ercan, O. (2009). Ergenlerde riskli davranışlar [Risky behaviors in adolescents]. *Türk Pediatri Arşivi*, 44(1), 1-6. https://dergipark.org.tr/tr/download/article-file/141175
- Altan, Ö. (2006). The effects of maternal socialization and temperament on children's emotion regulation [Master thesis].

 Koç
 Üniversitesi,

 https://tez.yok.gov.tr/UlusalTezMerkezi/tezDetay.jsp?id=A05XSptrEYrc2
 - Hy_1OUxg&no=FziEwYOrwH2a72KL5-FITw
- Atalar, D. S., & Atalay, A. A. (2018). Ergenlik döneminde duygu düzenleme ve ruh sağlığı: Ana-babanın ve mizacın rolü [Emotion regulation and mental health in adolescence: The roles of parenting and temparement]. Bildik, T., editör. Ergenlik Dönemi ve Ruhsal Bozukluklar. Ankara: Türkiye Klinikleri, 84-90. https://www.researchgate.net/profile/Dilek-Saritas-Atalar/publication/326377165_Ergenlik_Doneminde_Duygu_Duzenleme_ve_Ruh_Sagligi_Ana-Babanin_ve_Mizacin_Rolu/links/5b48a510a6fdccadaec7929d/Ergenlik-Doeneminde-Duygu-Duzenleme-ve-Ruh-Sagligi-Ana-Babanin-ve-Mizacin-Rolue.pdf
- Atalay, D., & Özyürek, A. (2021). Ergenlerde duygu düzenleme stratejileri ve ebeveyn tutumları arasındaki

ilişkinin incelenmesi [Analyzıng the relationship between adolescents' emotion regulation strategies and parental attitudes]. *Milli Eğitim Dergisi,* 50(230), 815-834. https://doi.org/10.37669/milliegitim.707741

- Atay, A. D. (2014). Ortaokul öğrencilerinin fen öğrenmeye yönelik motivasyon düzeylerinin ve üstbilişsel farkındalıklarının incelenmesi [Investigation on secondary school students' motivation levels and metacognitive awareness on learning science] [Master thesis]. Adnan Menderes Üniversitesi.
- Ateş, B. K. (2023). Üniversite öğrencilerinin riskli davranışlarının duygu düzenleme güçlüğü ve olumsuz çekirdek inanışlarla ilişkisi [Doctoral dissertation]. Necmettin Erbakan Üniversitesi.
- Baykara Özaydınlık, K. (2018). Öğretmen adaylarının üstbilişsel öğrenme stratejileri ve öğretmen yeterlik algıları üzerine karşılaştırmalı bir inceleme [A comparative analysis of preservice teachers' metacognitive learning strategies and teacher self-efficacy perceptions]. *Hacettepe Üniversitesi Eğitim Fakültesi Dergisi (H. U. Journal of Education)*, 33(1), 125-143. https://doi.org/10.16986/HUJE.2017028409
- Baykara, K. (2011). Öğretmen adaylarının bilişötesi öğrenme stratejileri ile öğretmen yeterlilik algıları üzerine bir bir çalışma [A study on "teacher efficacy perceptions" and "metacognitive learning strategies" of prospective teachers]. Hacettepe Üniversitesi Eğitim Fakültesi Dergisi (H. U. Journal of Education) 40, 80-92. http://efdergi.hacettepe.edu.tr/yonetim/icerik/makaleler/396-published.pdf
- Bedirhanbeyoğlu, H. (2018). Çocukluk çağı travmaları, bilişsel duygu düzenleme stratejileri ve riskli davranışlar arasındaki ilişkiler [Relationship between childhood traumas, cognitive emotion regulation strategies and risky behaviors] [Master's thesis]. Maltepe Üniversitesi.
- Bernheim, A., Halfon, O., & Boutrel, B. (2013). Adolesan beyninin bağımlılık yaratma konusundaki kırılganlığının artması hakkındaki tartışmalar[Controversies about the enhanced vulnerability of the adolescent brain to develop addiction].*Ön Farmakol*, 4(118). https://doi.org/10.3389 / fphar.2013.00118
- Bryce, J., & Haworth, J. (2002). Wellbeing and flow in sample of male and female office workers. *Leisure Studies*, 21(3-4), 249-263. https://doi.org/10.1080/0261436021000030687
- Can, U. (2023). Lise öğrencilerinde psikolojik iyi oluş, algılanan sosyal destek ve riskli davranışlar arasındaki ilişkilerin incelenmesi [Examınation of the relationship between psychological wellbeing, perceived social support and risky behaviors in high school students] [Master thesis]. Erzincan Binali Yıldırım Üniversitesi.
- Çelik, H., & Kocabıyık, O. O. (2014). Genç yetişkinlerin saldırganlık ifade biçimlerinin cinsiyet ve bilişsel duygu düzenleme tarzları bağlamında incelenmesi [Examination of young adults' aggression expression styles in terms of gender and cognitive emotion regulation]. *Trakya Üniversitesi Eğitim Fakültesi Dergisi*, 4(1), 139-155. https://dergipark.org.tr/tr/download/article-file/200334
- Demir, Ö., & Özmen, S. (2011). Üniversite öğrencilerinin üst biliş düzeylerinin çeşitli değişkenler açısından incelenmesi [An investigation of university students' metacognition levels in terms of various variables]. Çukurova Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, 20(3), 145- 160. https://dergipark.org.tr/tr/pub/cusosbil/issue/4388/60308
- Demircioğlu, H., & Yoldaş, C. (2019). Çocukluk ve ergenlik döneminde psikososyal risk faktörleri ve koruyucu unsurlar [An investigation of university students' metacognition levels in terms of various variables]. *Ankara Sağlık Hizmetleri Dergisi, 18*(1), 40-48. https://dergipark.org.tr/en/download/article-file/838476
- Dilci, T., & Kaya, S. (2012). 4. ve 5. sınıflarda görev yapan sınıf öğretmenlerinin üstbilişsel farkındalık düzeylerinin çeşitli değişkenler açısından incelenmesi [Examination of meta-cognitive awareness levels of class teachers teaching 4th and 5th grades in terms of various variables]. *SDÜ Fen Edebiyat Fakültesi Sosyal Bilimler Dergisi*, 27, 247-267. https://dergipark.org.tr/tr/download/article-file/117833
- Duy, B., & Yıldız, M. A. (2014). Ergenler için duygu düzenleme ölçeğinin Türkçe'ye uyarlanması [Adaptation of the regulation of emotions questionnaire (req) for adolescents]. *Türk Psikolojik Danışma ve Rehberlik Dergisi, 5*(41), 23-35. https://dergipark.org.tr/tr/download/article-file/200288
- Kalemkuş, J. (2021). Bilmeyi bilme: Üstbiliş [Knowing about knowing: Metacognition]. Atatürk Üniversitesi Kazım Karabekir Eğitim Fakültesi Dergisi, (42), 471-495.
- Karaırmak, Ö. (2006). Psikolojik sağlamlık, risk faktörleri ve koruyucu faktörler. *Turkish Psychological Counseling and Guidance Journal*, 3(26), 129-142. https://dergipark.org.tr/en/download/article-file/200210
- Kaya, İ. (2015). Ergenlerin çocukluk dönemi istismar yaşantıları ile davranış problemleri ve psikolojik sağlamlıkları arasında ilişkinin incelenmesinde otomatik düşünceler ve bilişsel duygu düzenleme stratejilerinin aracı rolü [The mediating role of automatic thought and cognitive emotion regulation strategies on relationships among childhood abuse, behavioral problems and resilience of adolescents] [Doctoral dissertation].

Çukurova Üniversitesi. https://acikbilim.yok.gov.tr/bitstream/handle/20.500.12812/130404/ yokAcikBilim_10073803.pdf?seque nce=-1&isAllowed=y

- Kelek, Ş. (2020). *Duygu düzenleme yordayıcıları: Üst duygu, duygudurum ve ebeveyn duygusal erişilebilirliği* [The predictors of emotion regulation: meta emotion, mood and emotional availability of parents] [Master thesis]. Hacettepe Üniversitesi.
- Kurt, D. G., & Ergene, T. (2017). Türk ergenlerde riskli davranışların yordanması [Prediction of Risk Behaviours among Turkish Adolescents]. Eğitim ve Bilim, 42(189). DOI: http://dx.doi.org/10.15390/EB.2017.6354
- Lazarus, R. S. (1991). Emotion and adaption. New York: Oxford University Press, Inc. DOI:10.2307/2075902
- Mutlu, M. E. (2015). Yaşam deneyimleri için bir bağlam modeli (LECOM) [A new context model for life experiences (LECOM)]. XVII. *Akademik Bilişim Konferansı*, 4-6, 679-688. https://ab.org.tr/ab15/kitap/269.pdf
- Núñez-Regueiro, F., Archambault, I., Bressoux, P., & Nurra, C. (2021). Measuring stressors among adolescents: Validation of the Positive and Negative Adolescent Life Experiences scale. *Journal of Psychoeducational Assessment*, 39(8), 969-982.
- Onat, O., & Otrar, M. (2010). Bilişsel duygu düzenleme ölçeğinin Türkçeye uyarlanması: Geçerlik ve güvenirlik çalışmaları [Adaptatıon of cognitive emotion regulation questionnaire to Turkish: Valıdıty and reliability studies]. MÜ Atatürk Eğitim Fakültesi Eğitim Bilimleri Dergisi, 31, 123-143. https://dergipark.org.tr/tr/download/article-file/1656
- Özsoy, G. (2008). Üstbiliş [Metacognition]. *Türk Eğitim Bilimleri Dergisi, 6*(4), 713-740. <u>https://dergipark.org.tr/tr/download/article-file/256304</u>
- Özsoy, G., & Günindi, Y. (2011). Okulöncesi öğretmen adaylarının üstbilişsel farkındalık düzeyleri [Prospective preschool teachers' metacognitive awareness]. İlköğretim Online Dergisi, 10(2), 430-440. https://dergipark.org.tr/tr/download/article-file/90652
- Öztürk, N. (2020). Lise dönemindeki ergenlerin riskli yaşam deneyimleri [Risky life experiences of adolescents in high school] *Dicle Üniversitesi Ziya Gökalp Eğitim Fakültesi Dergisi,* 1(37), 100-113. https://dergipark.org.tr/tr/download/article-file/1197143
- Polat, Ö., Akay, D., & Aydın, E. (2021). MEB 2013 okul öncesi eğitim programı'nın beyin temelli öğrenme yaklaşımı açısından incelenmesi [Investigation of mone 2013 preschool education program in terms of braın based learning approach]. *Milli Eğitim Dergisi, 50*(229), 419-444. https://dergipark.org.tr/en/download/article-file/1557544
- Rıza, S. Ö. (2016). Evli bireylerin bilişsel duygu düzenleme stratejilerinin psikolojik iyi oluşları ve evlilik doyumları ile ilişkisinin incelenmesi [The relationship between cognitive emotion regulation strategies, psychological well being and marital satisfaction on married individual] [Master thesis]. Işik Üniversitesi. https://acikerisim.isikun.edu.tr/xmlui/bitstream/handle/11729/1054/1054.pdf?sequence=1&isAllowed= V
- Şahin, D. (2019). Üniversite öğrencilerinin ebeveynlerine bağlanma örüntüleri ile çocukluk çağı olumsuz deneyim yaşama durumları arasındaki ilişki [Master thesis]. Karamanoğlu Mehmetbey Üniversitesi. https://earsiv.kmu.edu.tr/xmlui/bitstream/handle/11492/4530/%c5%9eahin%2c%20Dilara.pdf?sequen ce=4&isAllowed=y
- Şener, O. (2020). Obsesif kompulsif bozukluk tanısı almış bireylerde bilişsel duygu düzenleme stratejileri ve özyeterlilik düzeyi ile obsesif kompulsif bozukluk tanısı almamış bireylerde bilişsel duygu düzenleme stratejileri ve özyeterlilik düzeyinin karşılaştırılması [Master thesis]. Üsküdar Üniversitesi.
- Tunca, N., & Alkın Şahin, S. (2014). Öğretmen adaylarının bilişötesi (üst biliş) öğrenme stratejileri ile akademik öz yeterlik inançları arasındaki ilişki [The Relationship Between Pre-Service Teachers' Metacognitive Learning Strategies and Academic Self-Efficacy]. Anadolu Journal of Educational Sciences International, 4(1), 47-56. https://doi.org/10.18039/ajesi.89592
- Tuncalı, N. (2022). Öğretmen adaylarında bilişsel duygu düzenleme stratejileri ve akademik özyeterlik arasındaki ilişkinin incelenmesi [Investigation of the relationship between cognitive emotion regulation strategies and academic self-efficacy on teacher candidates] [Doctoral dissertation]. Bursa Uludag University.

- Ulukol, B., Kahiloğulları, A.K., & Sethi, D. (2014). Adverse childhood experiences survey among university students in Turkey. Study report 2013. Copenhagen: WHO Regional Office for Europe. https://hdl.handle.net/11454/33501
- Wang, F., Leung, S. O., & Jiang, C. (2021). Psychometric properties of cognitive and metacognitive learning strategies scale among Chinese senior secondary school students. *Journal of Psychoeducational* Assessment, 39(6), 761-771. https://doi.org/10.1177/07342829211011806
- Yaman, A. B. (2018). Ebeveyn tutumlarının çocukların mizaç özellikleri ve duygu düzenleme becerileri üzerindeki rolü [The role of parentıng styles on temperament characteristics and emotion regulation skills of children] [Master thesis]. İstanbul Işık Üniversitesi Sosyal Bilimler Enstitüsü. https://acikerisim.isikun.edu.tr/xmlui/bitstream/handle/11729/1358/1358.pdf?sequence=1&isAllowed= y
- Yeşilyurt, E. (2021). Üstbiliş: Kavramsal bir bakış [Metacognıtıon: A conceptual view]. In International Marmara Social Sciences Congress (Spring 2021) (p. 101). https://www.researchgate.net/profile/Goezde-Genc/publication/363135485_Turkiye'de_Emege_Dair_Guvencesizliklerin_Akademisyenler_ve_Ev_H izmetlerinde_Calisanlar_Acisindan_Bir_Degerlendirmesi/links/630f1cca61e4553b955208dd/Tuerkiyed e-Emege-Dair-Guevencesizliklerin-Akademisyenler-ve-Ev-Hizmetlerinde-Calisanlar-Acisindan-Bir-Degerlendirmesi.pdf#page=121
- Yokuş, T., Yokuş, H., & Kalaycıoğlu, Ş. (2013). Müzik öğretmeni aday adaylarının sürekli-durumluk kaygı düzeyleri ve müzik özel yetenek sınavı başarıları arasındaki ilişkinin incelenmesi [Analyzıng the relationship between state-trait anxiety levels and the achievement in music special aptitude test among music teacher potential candidates]. *Güzel Sanatlar*, 8(1), 153-163.
- Zengin, M. (2019). Üniversite öğrencilerinde mükemmeliyetçilik, bilişsel duygu düzenleme stratejileri ve kaygı arasındaki ilişkiler [The relationships between perfectionism, cognitive emotion regulation strategies and anxiety in university students] [Master thesis]. Maltepe Üniversitesi.