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The relationships between the big five personality traits and attitudes towards seeking professional psychological help in mental health counselor candidates: Mediating effect of cognitive flexibility

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The purpose of this study was to examine the relations between the five big personality traits (openness, conscientiousness, extraversion, agreeableness, neuroticism) and attitudes towards seeking professional psychological help in counseling students along with the mediating role of cognitive flexibility. The sample of the study consisted of 189 students (140 female and 49 male) attending the counseling program at Istanbul Medipol University. The age mean of the sample was 20.81 (SD=1.91). The data were collected in the fall term of the 2018 to 2019 academic year. The Big Five Inventory, Attitudes Toward Seeking Professional Psychological Help Scale and Cognitive Flexibility Scale were used as data collection instruments. The data were analyzed by using SPSS 20 Statistical Package Program and the mediation model was tested in SPSS using PROCESS macro developed by Hayes. Results revealed that cognitive flexibility has mediator role between big five traits and psychological help-seeking attitude. In conclusion, the proposed model has emerged statistically significant.

Key words: Big five personality traits, attitudes toward seeking professional psychological help, cognitive flexibility, candidate counselors.

INTRODUCTION

There are several lines of discussion regarding whether psychological counselors, or candidates require professional help for their own personal problems (Corey, 2009). Especially when it comes to psychodynamic, humanistic and existential psychotherapies, the experience of counselors who have taken on psychological help often see it as a necessity both as a an "educational tool" and a means of "personal development" for anyone aiming to fulfill the role of a psychotherapist/counselor effectively (Elliott and Partyka, 2005).

As part of the training process, trainee-therapists enjoy the opportunity to observe the therapist in action during a therapy setting, and this offers an essential experiential learning opportunity in the development of the candidate's talents (Laireiter and Willutzki, 2005). But there are several benefits to this exposure being directed at the

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Author(s) agree that this article remain permanently open access under the terms of the <u>Creative Commons Attribution</u> <u>License 4.0 International License</u> candidate themselves in "personal therapy" sessions, and this is backed up various by many studies. As a client, a trainee-counselor spends valuable time on self-discovery and gaining a practical understanding of the therapy process in a way that can no doubt help them increase their self-awareness related to the field especially (Corey, 2009). Similar to Corey, (2009) also mentions that "personal therapy" is an excellent experience that provides a lot of serious improvement for the counselors and candidate counselors.

Corey et al. (2007) state that the psychological counselor is responsible for possessing self-awareness in their own life. It naturally follows that psychological counselors who are aware of their own needs, unfinished mechanisms business. conflicts. defense and weaknesses, are thought to focus on the needs of the client in their psychological counseling process rather than their own needs. Various investigations have been conducted on psychological counselors, psychologists and various mental health workers in terms of the need to take "personal therapy". Orlinsky et al. (2005) investigated the impacts of the personal therapy and they reported that more than 90% of mental health professionals explained to their satisfaction and positive outcomes from their own counseling experiences. Also, another researcher Norcross (2005) conducted many researches about the personal therapy. According to his inquires pointed that various positive gains about the personal therapy such as self-esteem, social life, emotional expression, intrapersonal conflicts, and symptom severity and work functioning. Corey (2009) claimed that personal therapy can be as an instrumental in healing the healer. He reported that if the candidate counselors do not involve in the pursuit of healing their wounds, they probably have considerable difficulty entering the world of a client. As seen in all these studies, personal counseling could provide emotional health and personal growth needed to support counselors and WHO training for mental health positions.

Psychological help-seeking attitude and personality traits

To seek psychological help is to seek various among effective means to deal with the challenges an individual faces in life (Nicholas et al., 2004). Many researchers reveal that psychological help seeking attitude is affected by many factors such as gender, culture, religion, social adjustment, emotionally openness, self-disclosure and the beliefs/cognitions about the benefits of the selfdisclosure, public stigma and self-stigma" (Egisdottor and Gerstein, 2009; Vogel and Wester, 2003; Vogel et al., 2007a, b). Moreover, personality traits undoubtedly influence one's attitude toward seeking help in general, and psychological help in particular. According to Corey (2009), effective counselors are professionals who have the ability to establish and maintain an effective therapeutic relationship with their clients and at the same time apply the most appropriate techniques to their clients' needs in order to control their own experiences and reactions and help their clients.

In this context, psychological counselors are expected to exhibit a certain set of characteristics in order to be effective, namely professional "personality traits" and "professional expertise". In terms of "personality characteristics," this means having an identity, selfrespect and appreciation, being open to change, being life-oriented, showing authentic behavior; be sincere and honest, have a sense of humor, are capable of making mistakes and tend to accept their mistakes. In terms of their "professional expertise", effective counselors have effective interpersonal communication skills, competent in basic counseling skills, ability to conceptualize the counseling process, apply various techniques in psychological counseling, passionate about their work and have a meaning in their work. Also they are ambitious and sensitive to cultural differences (Norcross et al., 2007; Corey, 2009; Hackney and Cormier, 2008; Skovholt and Jennings, 2004).

The characteristics of "having an identity" from the characteristics related to the possible personality traits are thought to affect the attitudes of counselors' seeking attitudes in being able to know themselves, knowing how much they can help their clients and understanding their priorities. According to Hackney and Cormier (2008), having an identity means to have a personal awareness and understanding ability. From these perspectives, "having self-esteem and appreciation" means that having the awareness of self-worth and self-strength in order to be able to help others or ask for help from others (Corey, 2009). Cormier and Cormier (1991) describe this feature as "self-awareness" and report that psychological counselors transfer their own tendencies in this regard to their client, whether for better or worse. According to this, psychological counselors who feel inadequate and insufficient in themselves, reflect these negative beliefs to their clients through their behavior; conversely, those who aware of their own strengths reflect these are characteristics in their interaction with clients. In summary, then, the self-awareness of psychological counselors has an active role in the effectiveness of the counseling process. Therefore, in order for the consultation process to be carried out to better success, it is important that the psychological counselor knows their own conception of self-awareness, namely that they know their personal strengths, needs, expectations, goals and limitations.

In terms of "openness to change", the most effective counselors are those bold in tackling the circumstances in which they must revise their approach. Effective counselors can decide how they should be able to change and become the person they wish to be intuitively (Corey, 2009). Hackney and Cormier (2008) describe the openness to change as simply "being open-minded".

Another personality trait, having "life-oriented" characteristics, implies that early life experiences effect personalities, but hold that this is not a situation that is therefore fated and can change. Having "authentic, sincere and honest" features refers to ones ability to be sincere and honest about not hiding behind masks, and not defending them. "Having advanced sense of humor" is another helpful feature, and effective counselors are found to be those who can laugh at their own flaws and contradictions. They are therefore "capable of making mistakes and tend to accept their mistakes". Showing "moment-oriented living (now and here) characteristics, counselors are aware that life can be experienced by focusing on the present. Finally, "creating the boundaries in a healthy way", is meant to make one aware on how to protect the personal boundaries in a relationship with a client and to be able to say no when necessary (Corey, 2009; McLeod, 2003).

In this study, the big five personality scale was used in the measurement of personality traits among psychological counselor candidates because of the fact that most of the features constituting the human personality can be grouped somewhere along this scale (Burger, 2006). The big five-factor personality scale consists of five dimensions; openness to experience, conscientiousness, extraversion, agreeableness and neuroticism. The dimension of openness to experience subscale is described to people who are open to innovations and are intellectually curious, open to learning are open to experience; people who are traditional and intellectually unrelated are people with low openness to experience. In terms of self-control, planned, determined and success-oriented individuals show conscientiousness, while those who are unplanned, postponed. and lack self-control are low in conscientiousness. It is via the trait of extraversion by way one can exhibit social, entertaining, talkative, joking and loving nature; whereas introversion causes individuals to become non-social, comfortable away from others, silent, distant, passive and shy. According to the sub-dimension of agreeableness, friendly, close, warm, reliable social and people are agreeableness; argumentation, low attitudes towards others, noncooperative and hard-tempered individuals are individuals with low levels of compliance. The dimension of neuroticism means people who are generally anxious, restless, sad and weak in coping with stress are defined as neurotic. People who are calm, emotionally balanced and capable of dealing with stress are defined as persons with low neuroticism (McCrae and Costa, 2003; Glass, Prichard et al., 2013; Lounsbury et al., 2009).

In brief, the five factor personality scale dimensions: openness to experience equates with personal curiosity to explore; conscientiousness covers the fact that the person wants to achieve what he wants to follow and perseverance; extraversion governs sociability; agreeableness equates with a desire to avoid conflict; neuroticism expresses that a person, such as depression anxiety, experiences a negative mood in a continuous manner (The ACA Encylopedia of Counseling, 2009). Consequently, there is a significant relation between personality traits and psychological help-seeking attitudes in counselor and other mental health professionals.

The mediator role of cognitive flexibility

Cognitive flexibility is the ability to think flexibly and to shift perspectives and approaches with ease. Cognitive flexibility also describes a kind of information processing and ability to adapt to new things. Especially it implies the ability to regulate cognitive information processing. Thus, cognitive flexibility increases with experimental learnings (Canas et al., 2006). Cognitive flexibility is also defined as individuals' ability to realize suitable options and alternatives, being eager to be flexible while being adaptable to the situation and considering themselves competent in flexible thinking and behaving (Martin and Rubin, 1995).

In order to behave in a flexible manner, it is necessary to think in a flexible way. Individuals with cognitive flexibility do not limit themselves to only one solution when encountering an issue; on the contrary, they tend to review all possible alternative solutions. Individuals with cognitive flexibility are also creative people displaying creativity, fluency and originality in thinking (Martin and Anderson, 2001). Individuals who possess cognitive flexibility experience new ways of communicating, face situations they are not accustomed to, and are willing to adapt their behavior effectively in dealing with problematic situations (Martin and Anderson, 1998). Moreover, since a significant portion of cognitive flexibility constitutes the concept of self-efficacy, individuals with cognitive flexibility believe in self-confidence and believe in their ability to act effectively (Bandura, 1982).

Cognitively, flexible thinking and behavior is a feature that can be applied to a variety of situations that require communication or creativity in the face of the issues brought up in everyday life (Martin and Anderson, 2001). In a way, it is a kind of cognitive and behavioral ability that can be applied in any case. According to Rational-Emotional Behavioral Therapy (REBT), Cognitive-Behavioral Therapy (CBT) and the theories posed regarding these cognitive-behavioral psychotherapies, people with certain inflexible thinking styles dogged by dogmatic, rigid and absolutist approaches suffer a form of psychological dysfunction that can ultimately cause them to experience various mental disorders such as neurosis. Therefore, both REBT and CBT are called into play as therapeutic approaches that specialize in encouraging people to think and act more flexible (Ellis and Dryden, 2007). Practitioners of cognitive-behavioral therapies confirm that cognition is followed by emotion, then behavior. Therefore, in order to behave cognitively

flexible, it is necessary to think first. For this reason, this study aims to find out the relations between personality dimensions (openness, conscientiousness, extraversion, agreeableness, neuroticism) and attitudes toward seeking professional psychological help in counseling students along with the mediating role of cognitive flexibility.

METHODOLOGY

Research design

This study was designed through correlational research model with quantitative research approach. The mediating effect of cognitive flexibility in the relationship between personality traits and attitudes towards seeking professional psychological help was examined to use a multiple mediator bootstraping method (Hayes, 2013). Figure 1 shows the research model.

According to this method, firstly, the effect of big five personality traits, which is an independent variable, on cognitive flexibility, which is a mediating variable, should be evaluated. Then, the effect of cognitive flexibility on psychological help-seeking and then the effect of big five personality traits should be examined. In this study, using the mediator variable analysis method, the hypothesis that cognitive flexibility has a mediating effect between big five personality traits and psychological help-seeking was tested.

Workgroup/sample

The sample of the study consisted of 189 students (140 female, 49 male) attending to the Psychological Counseling and Guidance Program at Istanbul Medipol University. The mean age of the participants came to 20.81 (SD = 1.91). The convenient sampling method was used to determine the sample (Fraenkel et al., 2011).

Data collection procedures

Firstly, ethical permission was gotten from the ethical committee of the university; then data was collected from undergraduate students at the fall term in 2018. The scales were given to the students during the lecture and were asked to fill. Participation in the study was on voluntary basis. Before starting to collect data, a written informed consent form in which participants were informed about the purpose of the study and assured of confidentiality was given. The participants who confirmed their consent to participate in the study were given the scales in paper-pen format. It took about 15 min to fill all of the scales.

Data collection instruments

In this study, The Big Five Inventory (BFI), Attitudes Toward Seeking Professional Psychological Help Scale (ATSPPHS) and The Cognitive Flexibility Scale (CFS) were used as data collection instruments.

The big five inventory (BFI)

BFI was developed by Benet-Martinez and John (1998), a 5-item self-report measure with a five factor structure. The scale dimensions include extraversion, agreeableness, openness to

experience, conscientiousness, and neuroticism. The inventory was adapted into Turkish by Sümer and Sümer (2005). The Turkish form of the BFI consists of a 44 item self-report measure with a five factors structure. Items on the scale are rated according to a 5-point Likert scale (1: Totally disagree; 5: Totally agree). According to the results of the reliability analysis, the subscales' Cronbach Alfa Coefficient range from 0.64 and 0.77.

Attitudes toward seeking professional psychological help scale (ATSPPHS)

ATSPPHS, developed by Fischer and Farina (1995), is a 10 item self-report measure with a single factor structure. The scale was adapted into Turkish by Topkaya (2011). Items on the scale are rated on a 4-point Likert scale (1: Totally disagree; 4: Totally agree). The Cronbach Alpha value for internal consistency was 0.76 for the overall scale.

The cognitive flexibility scale (CFS)

CFS developed by Martin and Rubin (1995), consists of a 12 item self-report measure with three subscales (awareness, willingness, self-efficacy). The scale was adapted into the Turkish language by Altunkol (2011). The Turkish form of the scale consists of 2 subscales (naming as reverse and non-reverse items scale). Items of the scale are rated on a 6-point Likert scale (1: Totally disagree; 6: Totally agree). The Cronbach Alpha value for internal consistency was 0.81 for the overall scale.

Analysing data

In the first part of the data analysis, raw data was screened and cleared through SPSS 20 statistical package program (IBM, 2011). Then correlations between variables were calculated using Pearson Correlation Coefficient Analysis. The mediation model was tested by utilizing Hayes' PROCESS macro in SPSS (Hayes, 2013). For this purpose, the Serial Multiple Mediator Model was used to determine whether cognitive flexibility has a mediating role between big five personality traits and psychological help seeking attitude. 5000 bootstrap sampling was used in the analyzes and estimates were corrected for bias error and evaluated at 95% confidence interval reflecting corrected results.

The limitations of the study

The current study has a number of limitations. Firstly, all data was based on self-reported measures, which might introduce response bias. In many researches, self-reported scales were commonly used but these measures may cause social desirability effects in participants' response. That is, participants may not have given honest answers to the questions in the survey. Thus socially desirable response may have affected the reliability of the results adversely. Secondly, the number of female was more than the male counterparts which mislead the results in terms of a possible gender effect. Furthermore, this study results have generalizability problem due to the fact that participants were undergraduate students at a private university in Istanbul.

Thirdly, it is reported that there are many different variables affecting this study's model. But in this study, it is limited by ignoring the effects of these variables. Lastly, personality traits and helpseeking attitudes are commonly studied in clinical population but in this study, these variables are tested in non-clinical population.
 Table 1. Inter-correlations between variables.

Variable	1	2	3	4	5	6	7
Openness	-						
Conscientiousness	0.30***	-					
Extraversion	0.33***	0.27***	-				
Agreeableness	0.21**	0.31***	0.24**	-			
Neuroticism	25**	-0.39***	-0.34***	-0.32***	-		
Cognitive flexibility	.51***	0.56***	0.48***	0.22**	-49***	-	
Psychological help-seeking attitudes	0.25**	0.34***	0.29***	0.33***	-0.21**	0.38**	-

N = 189; ***p < 0.001, **p < 0.01 (2-tailed).

Table 2. The results of the serial multiple mediator model for the investigating of mediator role of cognitive flexibility in the effect of openness personality trait on psychological help-seeking attitude.

Outcome variable	M (Co	gnitive flex	(ibility)	Y (Psychological help-seeking attitude)			
	β	SE	р	β	SE	р	
Openness (X)	0.72	0.09	0.000	0.04	0.04	0.375	
Cognitive flexibility (M)	-	-	-	0.14	0.03	0.000	
C (Consant)	25.38	3.19	0.000	21.09	1.64	0.000	
	$R^2 = 0.26$ F(1,187) = 65.83 p = 0.000			$R^2 = 0.15$			
				F(2,186) = 16.18 p = 0.000			

FINDINGS

Descriptive statistics

A Pearson product-moment correlation analysis was conducted in order to explore the correlations between variables. The inter-correlations between the variables of the proposed model are shown in Table 1.

Based on Table 1, it can be assumed that significant correlations exist between the variables of the proposed model. The absolute values of Pearson's correlations for the study variables ranged between -0.21 and 0.56, and all the correlations are significant at 0.001 and 0.01 level.

In Tables 2 to 6, the results of the regression analysis used for testing mediating effects of the cognitive flexibility between big five personality traits and psychological help-seeking attitudes were presented.

As shown in Table 2, according to the results of multiple regression analysis, the openness personality trait (X; indicator variable) significantly predicts the cognitive flexibility (M; mediator variable) (a path; β = 0.72, SE=0.09, t=8.11, p<0.001, CI [0.55, 0.90]).

Also the multiple regression analysis was used to analyze the effects of both cognitive flexibility (M) (b) and openness personality trait (X) (c') on the psychological help-seeking attitude (Y, outcome variable). As shown in Table 2, cognitive flexibility significantly predicts psychological help-seeking attitude (path b; β =0.14, SE=0.03, t=4.37, p<0.001, CI [0.08, 0.21]). In a model where the mediator variable (M) is not present, the effect of the openness personality trait (X) on the psychological help-seeking attitude (Y) (path c) is called the total effect. Accordingly, in the absence of cognitive flexibility, openness personality trait significantly predicts on help seeking (c path; β = 0.14, SE= 0.04, t=3.46, p<0.001, CI [0.07, 0.23]).

On the other hand, when openness personality trait (X, indicator variable) and cognitive flexibility (M, mediator variable) were taken simultaneously to the equation, the direct effect between the openness personality trait and psychological help-seeking attitudes was found not significantly (c' path; $\beta = 0.04$, SE = 0.04, t = 0.88, p >0.001, CI [-0.04, 0.13]). According to this finding, it was revealed that cognitive flexibility, the mediating variable added to the equation, mediates the relationship between openness personality trait and psychological help-seeking attitude.

According to findings, it was concluded that the indirect effect of the study on openness (X, indicator variable) and cognitive flexibility (M, mediator variable) psychological help-seeking attitude (Y) (c-c ') was significant. It means the indirect effect of openness personality trait on psychological help seeking attitude was significant; thus, cognitive flexibility mediates the relationship between openness personality trait and psychological help-seeking attitude (c- c ') point prediction = 0.10, SE = 0.04, BCa CI [0.03, 0.18]).

Besides, when Table 2 is examined, it is seen that the

Outcome variable	M (Co	gnitive flex	(ibility)	Y (Psychological help-seeking attitude)			
	β	SE	р	β	SE	р	
Conscientiousness (X)	0.86	0.13	0.000	0.11	0.05	0.024	
Cognitive flexibility (M)	-	-	-	0.12	0.03	0.000	
C (Consant)	22.96	3.07	0.000	20.15	1.59	0.000	
	$R^2 = 0.31$ F(1,187) = 85.02 p = 0.000			$R^2 = 0.17$ F(2,186) = 18.75 p = 0.000			

Table 3. The results of the serial multiple mediator model for investigating mediator role of cognitive flexibility in the effect of conscientiousness personality trait on psychological help-seeking attitude.

Table 4. The results of the serial multiple mediator model for investigating mediator role of cognitive flexibility in the effect of extraversion personality trait on psychological help-seeking attitude.

Outcome variable	M (Co	gnitive flex	ibility)	Y (Psychological help-seeking attitude)				
	β	SE	р	β	SE	р		
Extraversion (X)	0.72	0.10	0.000	0.08	0.04	0.078		
Cognitive flexibility (M)	-	-	-	0.13	0.03	0.000		
C (Consant)	31.20	2.71	0.000	20.84	1.53	0.000		
		$R^2 = 0.23$			$R^2 = 0.16$			
	F(1,187) = 55.29 p = 0.000			F(2,16) = 15.55 p = 0.000				

Whole model is significant (F (2, 186) = 16.18, p < 0.001, R2 = 0.15) and explains 15% of the total variance.

As shown in Table 3, according to the results of multiple regression analysis, the conscientiousness personality trait (X; indicator variable) significantly predicts the cognitive flexibility (M; mediator variable) (a path; β = 0.86, SE=0.13, t=9.22, p<0.001, CI [0.5.68, 1.04]). Also, the multiple regression analysis was used to analyze the effects of both cognitive flexibility (M) (b) and conscientiousness personality trait (X) (c ') on the psychological help-seeking attitude (Y, outcome variable). As shown in Table 3, cognitive flexibility significantly predicts psychological help-seeking attitude (path b; β = 0.11, SE = 0.03, t = 3.44, p<0.001, CI [0.05, 0.18]).

In a model where the mediator variable (M) is not present, the effect of the conscientiousness personality trait (X) on the psychological help-seeking attitude (Y) (path c) is called the total effect. Accordingly, in the absence of cognitive flexibility, conscientiousness personality trait significantly predicts on help seeking (c path; β = 0.22, SE= 0.05, t=4.93, p<0.001, CI [0.13, 0.30]).

On the other hand, when conscientiousness personality trait (X, indicator variable) and cognitive flexibility (M, mediator variable) were taken simultaneously to the equation, the direct effect between the conscientiousness personality trait and psychological help-seeking attitudes was found not significantly (c' path; $\beta = 0.12$, SE = 0.05,

t = 2.27, p <0.001, CI [0.01, 0.22]). This finding reveals that cognitive flexibility, the mediating variable added to the equation, mediates the relationship between conscientiousness personality trait and psychological help-seeking attitude.

According to findings, it was concluded that the indirect effect of the study on conscientiousness (X, indicator variable) and cognitive flexibility (M, mediator variable) psychological help-seeking attitude (Y) (c- c ') was significant. lt means the indirect effect of conscientiousness personality trait on psychological help seeking attitude was significant; thus, cognitive flexibility mediates the relationship between conscientiousness personality trait and psychological help-seeking attitude (c- c') point prediction = 0.10, SE = 0.04, BCa CI [0.03, 0.18]).

Besides, when Table 3 is examined, it is seen that the whole model is significant (F(2, 186) = 18.75, p <0.001, R2 = 0.17) and explains 17% of the total variance.

As seen in Table 4, according to the results of multiple regression analysis, the extraversion personality trait (X; indicator variable) significantly predicts the cognitive flexibility (M; mediator variable) s (a path; β = 0.72, SE= 0.10, t=7.44, p<0.001, CI [0.53, 0.92].

Also, multiple regression analysis was used to analyze the effects of both cognitive flexibility (M) (b) and extraversion personality trait (X) (c') on the psychological help-seeking attitude (Y, outcome variable). As shown in Table 4, cognitive flexibility significantly predicts

Table 5. The results of the serial multiple mediator model for the investigating mediator role of cognitive flexibility in the effect of agreeableness personality trait on psychological help-seeking attitude.

Outcome variable	M (Co	gnitive flex	(ibility)	Y (Psychological help-seeking attitude)				
	β	SE	р	β	SE	р		
Agreeableness (X)	0.40	0.13	0.002	0.19	0.05	0.000		
Cognitive flexibility (M)	-	-	-	0.13	0.03	0.000		
C (Consant)	37.30	4.40	0.000	16.45	1.96	0.000		
	$R^2 = 0.05$				$R^2 = 0.21$			
F(1,187) = 9.79			79	F(2,186) = 24.55				
		p = 0.002		p = 0.000				

psychological help-seeking attitude (path b; β = 0.13, SE = 0.03, t = 4.12, p <0.001, CI [0.07, 0.19]).

In a model where the mediator variable (M) is not present, the effect of the extraversion personality trait (X) the equation, mediates the relationship between extraversion personality trait and psychological helpseeking attitude.

According to findings, it was concluded that the indirect effect of the study on extraversion personality trait (X, indicator variable) and cognitive flexibility (M, mediator variable) psychological help-seeking attitude (Y) (c- c ') was significant. It means the indirect effect of extraversion personality trait on psychological help seeking attitude was significant; thus, cognitive flexibility mediates the relationship between conscientiousness personality trait and psychological help-seeking attitude (c- c ') point prediction = 0.09, SE = 0.03, BCa CI [0.03, 0.17]).

Besides, when Table 4 is examined, it is seen that the whole model is significant (F (2, 186) = 15.55, p <0.00, R2 = 0.16) and explains 16% of the total variance.

As seen in Table 5, according to the results of multiple regression analysis, the agreeableness personality trait (X; indicator variable) significantly predicts the cognitive flexibility (M; mediator variable) (a path; β = 0.40, SE= 0.13, t=3.13, p<0.001, CI [0.15, 0.65]).

Also, the multiple regression analysis was used to analyze the effects of both cognitive flexibility (M) (b) and agreeableness personality trait (X) (c') on the psychological help-seeking attitude (Y, outcome variable). As shown in Table 5, cognitive flexibility significantly predicts psychological help-seeking attitude (path b; β = 0.13, SE= 0.03, t=4.82, p<0.001, CI [0.08, 0.19]).

In a model where the mediator variable (M) is not present, the effect of the agreeableness personality trait (X) on the psychological help-seeking attitude (Y) (path c) is called the total effect. Accordingly, in the absence of cognitive flexibility, agreeableness personality trait significantly predicts on help seeking (c path; β = 0.22, SE= 0.05, t=4.93, p<0.001, CI [0.13, 0.30]).

On the other hand, when agreeableness personality trait (X, indicator variable) and cognitive flexibility (M, mediator variable) were taken simultaneously to the

equation, the direct effect between the agreeableness personality trait and psychological help-seeking attitude decrease but it is still significant (c' path; $\beta = 0.19$, SE = 0.05, t = 3.89, p <0.000, CI [0.09, 0.29]). These findings (the decreasing) suggested that mediator variable may show mediation effect between indicator variable and outcome variable.

Whether the indirect effect were statistically significant or not, it was seen that the indirect effect of the study on agreeableness (X, indicator variable) and cognitive flexibility (M, mediator variable) psychological helpseeking attitude (Y) (c- c ') was significant (point prediction = 0.05, SE = 0.03, BCa CI [0.03, 0.12]). It means the indirect effect of agreeableness personality trait on psychological help seeking attitude was significant; thus, cognitive flexibility mediates the relationship between agreeableness personality trait and psychological help-seeking attitude.

Besides, when Table 5 is examined, it is seen that the whole model is significant F (2, 186) = 24.55, p < 0.001, $R^2 = 0.21$) and explains 21% of the total variance.

As seen in Table 6, according to the results of multiple regression analysis, the neuroticism personality trait (X; indicator variable) significantly predicts the cognitive flexibility (M; mediator variable) (a path; β = -0.78, SE=0.10, t=-7.67, p<0.001, CI [-0.98,-0.58]).

Also, multiple regression analysis was used to analyze the effects of both cognitive flexibility (M) (b) and neuroticism personality trait (X) (c') on the psychological help-seeking attitude (Y, outcome variable). As shown in Table 6, cognitive flexibility significantly predicts psychological help-seeking attitude (path b; β = 0.15, SE=0.03, t=-4.68, p<0.001, CI [0.09, 0.21]).

In a model where the mediator variable (M) is not present, the effect of the neuroticism personality trait (X) on the psychological help-seeking attitude (Y) (path c) is called the total effect. Accordingly, in the absence of cognitive flexibility, neuroticism personality trait significantly predicts on help seeking (c path; β = -0.14, SE= 0.05, t=-2.97, p<0.001, CI [-0.23, -0.04]).

On the other hand, when neuroticism personality trait (X, indicator variable) and cognitive flexibility (M, mediator variable) were taken simultaneously to the equation, the direct effect between the neuroticism

Outcome variable	M (Co	gnitive flex	ibility)	Y (Psychological help-seeking attitude)			
	β	SE	р	β	SE	р	
Neuroticism (X)	-0.78	0.10	0.000	-0.02	0.05	0.657	
Cognitive flexibility (M)	-	-	-	0.15	0.03	0.000	
C (Consant)	69.69	2.51	.000	22.69	2.49	0.000	
	$R^2 = 0.24$ F(1,187) = 58.79			R ² = 0.15 F(2,186) = 15.83			
p = 0.000			p = 0.000				

Table 6. The results of the serial multiple mediator model for investigating of mediator role of cognitive flexibility in the effect

 of neuroticism personality trait on psychological help-seeking attitude.

personality trait and psychological help-seeking attitudes was found not significantly (c' path; β = -0.02, SE = 0.05, t = -0.44, p >0.001, CI [-0.12, 0.07]). This finding reveals that cognitive flexibility, the mediating variable added to the equation, mediates the relationship between neuroticism personality trait and psychological help-seeking attitude.

According to findings, it was concluded that the indirect effect of the study on neuroticism personality trait (X, indicator variable) and cognitive flexibility (M, mediator variable) psychological help-seeking attitude (Y) (c- c') was significant. It means the indirect effect of neuroticism personality trait on psychological help seeking attitude was significant; thus, cognitive flexibility mediates the relationship between neuroticism personality trait and psychological help-seeking attitude(c- c') point prediction = SE= 0.04, BCa CI [-0.20, -0.05]).

Besides, when Table 6 is examined, it is seen that the whole model is significant (F (2, 186) = 15.83, p < 0.001, R2 = 0.15) and explains 15% of the total variance.

DISCUSSION

In this study, the relations between big five personality dimensions (openness, conscientiousness, extraversion, agreeableness, neuroticism) and attitudes toward seeking professional psychological help among counseling students along with the mediating role of cognitive flexibility was examined. According to the results, all personality traits dimensions have significantly indirect effects on help-seeking attitudes. In other words, it was said that cognitive flexibility has a mediating effects on the relationship between big five personality traits and psychological help-seeking attitude.

Thus, the model was found statistically significant as proposed. Besides, it was found that the total variance explanation rations of the each indicator variables on the psychological help-seeking attitudes were statistically significant. These variables order in high to low shows that agreeableness personality trait explained 21% of the total variance, conscientiousness explained 17% of the total variance, extraversion explained 16% of the total variance and both openness and neuroticism explained the total variance 15%.

In this study, the first finding showed that openness to experience has significantly indirect effects on helpseeking attitudes. According to big five personality model, openness to experience can be explained through the trait of creativity and curiosity. Corey (2009), suggested the qualification of the effective counselors. One of these qualifications is open to change, and thus this means that effective counselors are those who can make decisions about how they would like to change, and work toward becoming the person they want to become. McLeod (2003) described this qualification as "an openness to learning and inquiry" meaning that all counselors should open to new knowledge and using research to inform their practice.

The model proposed in this study, showed that cognitive flexibility was mediated between openness to experience personality trait and help seeking attitude. In this context, it was seen that Dreisbach and Goschke's (2004) study supported this finding. According to their research, the positive relationships between cognitive flexibility and adaptation to new situations was found. In another saying, cognitive flexibility facilitates the ability to adapt to new situations. When the literature is examined, it is emphasized that there are relations between flexibility and personality traits in the few studies that examined five factors personality traits with direct cognitive flexibility. Murdock et al. (2013) stated in their research that there was a positive and significant relationship between cognitive flexibility and openness to experience personality trait.

The second finding of this study showed that conscientiousness has a significantly indirect effect on help-seeking attitudes. Costa and McCrea (1992) indicated conscientiousness gives individuals have the sufficient required degree of self-discipline and gumption for organization. These people experience low levels of negative emotions and positive emotions at a higher level, and thus are more satisfied generally. Azjen's theory of planned behavior is a theory which states that help-seeking for mental health problems is governed by attitudes, subjective norms, and perceived control over behaviour. The theory states that these traits interact to influence intentions, and consequently, one's behavior. Besides, Bilgin (2017) reported that cognitive flexibility is one of the variables that it predicted to significant responsibility (self-supervision) and emotional instability personality traits.

The third finding of this study showed that the trait of extraversion personality trait has significant indirect effect on help-seeking attitudes. Knowdell and Chapman (1993) claimed that being successful counselor actively has some relation to personality. Thus, they stated that the counselors should like people, desire to help and have a warm personality, positive attitude, nonthreatening demeanor and be good listener. All seem to agree that a good counselor ought to be "an extrovert" with strong external relations. McLeod (2003) introduced a composite model around counselors' qualifications. In this model, there are seven key areas of competence outlined. One of these pertains to "interpersonal skills" including good listening skills, communication skills and empathy. Furthermore, Tijhuis et al. (1990), claimed that a strong social network is an important variable affecting the professional help seeking attitude. However, in terms of social support network, people with close friendship and family relations are less likely to seek professional help. In the event that a social network is established with mental health professionals, people are more likely to seek professional psychological help if they are trusted by mental health workers. In this research, the proposed model showed that cognitive flexibility has a mediator role between extraversion personality trait and help seeking attitude. In this context, Gamez et al. (2011) and Gloster et al. (2011) supported this finding and they claimed the extraversion personality showed significant relationship with psychological flexibility.

The fourth finding of this study showed that the trait of agreeableness has significant indirect effect on helpseeking attitudes. Agreeableness is a personality trait that refers to friendliness and trust. In the broadest sense, aggreablessness implies a certain degree of obedience, and so therefore it follows that this could lead to negative effect in this context. Of course, certain cultures emphasize subordination as a positive personal trait, and others do not. This is related to the degree of individualism and collectivism in a culture, the latter being generally prevalent in Eastern societies. Because of their collectivist character of Eastern societies, subordination can be considered an honorable characteristic (McCrae and Costa, 2003). According to help-seeking literature, it was described as avoidance factor in the help-seeking process, social stigma (Komiya et al., 2000), treatment fears (Deane and Todd, 1996), fear of emotion (Komiya et al., 2000), anticipated utility and risks and selfdisclosure (Vogel and Wester, 2003).

As a consequence, these factors are thought to be the means of high cognitive flexibility between individuals' attitudes towards psychological help seeking and agreeableness personality traits as a serious threat to mental health and increased interest in holistic healthy living.

The fifth finding of this study showed that neuroticism has significantly indirect effects on help-seeking attitudes. According to big five personality model, neuroticism can be explained as the experience of negative effect. Gulliver et al. (2012) indicated that depression, anxiety, and general psychological distress can be effective in increasing help-seeking attitudes. Also, the health belief model also backs this study's findings. This model, is built on the premise that behavior is dependent on an individual's appraisal of the perceived threat of illness and its severity, and the perceived barriers and benefits of the behavior itself (Henshaw et al., 2009). The related literature examine showed the relationship between personality traits and stress and coping. For example, there is a positive correlation between neurotism or emotional instability and stress levels (Garbarino et al., 2014). It has been shown by conducted research (Altunkol, 2011; Stah and Pry, 2005) that individuals with high cognitive flexibility can cope with effectively unexpected and difficult situations, and create alternative solutions and coping methods. As a consequence, cognitive flexibility have an deeply and positive impact on the individuals' coping capacity towards to internal and external sources of stress. Also, it has a positive effect on the psychological well-being of adults (Koesten et al., 2009).

Finally, it is concluded that cognitive flexibility plays a mediator role in the relationship between big five personality traits and psychological help-seeking attitude. When it is examined, the total variance explanation rations about each of the indicator variables that the highest ratio belong to agreeablessness personality trait. According to this finding, it can be said that cognitive flexibility has more mediating effect on the relationship between agreeableness personality trait and psychological help compared to other indicator variables. After the agreeableness personality trait's explanation ratio, it has the total variance explanation rate from conscientiousness and extraversion, respectively, from high to low. Besides, openness and neuroticism are equal to total variance explanation rates.

RECOMMENDATION FOR FUTURE RESEARCHES

In future studies, the model may be tested by equating the number of female and male participants. Maybe there is a need to examine psychological help-seeking attitude using diverse ages groups. A comparative study can be conducted regarding the mediator role of cognitive flexibility between personality traits and psychological help seeking attitudes among professionals such as social workers, psychologists and psychiatrists in psychological care professions.

According to this study's findings, cognitive flexibility affected an indirect effect in the relationship between personality traits and psychological help-seeking attitudes. There is also many factors that affect the relationships between big five personality traits and psychological help-seeking attitude. This research examined whether cognitive flexibility is a mediator role or not. To understand the role of the other factors which affect psychological help-seeking attitude, there is need for new researches.

To develop intervention or education programs for mental health, professionals probably reduce the barriers of the help-seeking. For this purpose, in order to remove the obstacles to the attitude towards seeking psychological help in future researches, preparation and implementation of intervention programs may be included.

CONFLICT OF INTERESTS

The author has not declared any conflict of interests.

REFERENCES

- Altunkol F (2011). Üniversite öğrencilerinin bilişsel esneklikleri ile algılanan stres düzeyleri arasındaki ilişkinin incelenmesi. Yayınlanmamış yüksek lisans tezi. Çukurova Üniversitesi Sosyal Bilimler Enstitüsü, Adana.
- Bandura A (1982). Self-efficacy mechanism in human agency. American Psychologist 37(2):122-147. http://dx.doi.org/10.1037/0003-066X.37.2.122
- Benet-Martinez V, John OP (1998). Los Cinco Grandes across cultures and ethnic groups: Multi-trait multi-method analyses of the Big Five in Spanish and English. Journal of Personality and Social Psychology 75:729-750.
- Bilgin M (2017). Ergenlerin beş faktör kişilik özelliği ile bilişsel esneklik ilişkisi (relations to five factor personality model with cognitive flexibility in adolescents). Elektronik Sosyal Bilimler Dergisi. Electronic Journal of Social Sciences 16(62):945-954.
- Burger JM (2006). Kisilik [Personality] (Cev: İ.D. Erguvan Sarıoglu). İstanbul: Kaknüs Yayıncılık.
- Canas JJ, Fajardo I, Śalmerón L (2006). Cognitive flexibility. Eds: W. Karwowski. In book: International encyclopedia of ergonomics and human factors 3 Volume Set (Volume 1). 2nd edition. CRC Press.
- Corey G (2009). Theory and practice of counseling and psychotherapy. Cengage Learning EMEA Publishing.
- Corey G, Corey MS, Callanan P (2007). Issues and ethics in the helping professions. 7th edition revised. Brooks / Cole / Thomson Learning.
- Cormier WH, Cormier LS (1991). Interviewing strategies for helpers: fundamental skills and cognitive behavioral interventions (3rd ed.). Belmont, CA, US: Thomson Brooks/Cole Publishing Company.
- Costa PT, McCrea RR (1992). Revised NEO personality inventory (NEO-PI-R) and NEO Five-factor inventory (NEO-FFI) professional manual. Odessa, FL: Psychological Assessment Resources.
- Deane FP, Todd DM (1996). Attitudes and intentions to seek professional psychological help for personal problems or suicidal thinking. Journal of College Student Psychotherapy 10(4):45-59. http://dx.doi.org/10.1300/J035v10n04_06
- Dreisbach G, Goschke T (2004). How positive affect modulates cognitive control: Reduced perseveration at the cost of increased distractibility. Journal of Experimental Psychology: Learning, Memory, and Cognition 30(2):343-53. DOI:10.1037/0278-7393.30.2.343
- Egisdottor S, Gerstein LH (2009). Beliefs about psychological services (baps): Development and psychometric properties. Research report. Counseling Psychology Quarterly 22(2):197-219. https://doi.org/10.1080/09515070903157347

- Elliott R, Partyka R (2005). Personal therapy and growth work in experiential- humanistic therapies. In: J. Geller, J. Norcross, and D. Orlinsky (Eds.), The psychotherapist's own psychotherapy. New York: Oxford Press.
- Ellis A, Dryden W (2007). Practice of rational emotive behavior therapy. Springer Company.
- Fischer EH, Farina A (1995). Attitudes toward seeking professional psychological help: a shortened form and considerations for research. Journal of College Student Development 36:368-373.
- Fraenkel J, Wallen N, Hyun H. (2011). How to design and evaluate research in education (8th ed.). US: McGraw-Hill Education.
- Gamez W, Chmielewski M, Kotov R, Ruggero C, Watson D (2011). Development of a measure of experiential avoidance: The multidimensional experiential avoidance questionnaire. Psychological Assessment 23(3):692-671.
- Garbarino S, Chiorri C, Magnariva N (2014) Personality traits of the five factor model are associated with work-related stress in special foce police officers. International Archives of Occupational and Environmental Health 87(3):295-306.
- Gladding ST (2009). Counseling: a comprehensive profession. 6th edition, Upper Saddle River, New Jersey: Merrill/Pearson.
- Glass R, Prichard J, Lafortune A, Schwab N (2013). The influence of personality and Facebook use on student academic performance. Issues in Information Systems 14:119-126.
- Gloster AT, Klotsche J, Chaker S, Hummel KV, Hoyer J (2011). Assessing psychological flexibility: What does it add above and beyond existing constructs? Psychological Assessment 23(4):970– 982.
- Gulliver A, Griffiths KM, Christensen H, Brewer JL (2012). A systematic review of help-seeking interventions for depression, anxiety and general psychological distress. BMC Psychiatry 12:81. https://doi.org/10.1186/1471-244X-12-81.
- Hackney HL, Cormier LS (2008). The professional counselor: a process guide to helping. Pearson Publishing.
- Hayes AF (2013). Introduction to mediation, moderation, and conditional process analysis: A regression-based approach.New York, NY: The Guilford Press
- Henshaw EJ, Freedman-Doan CR (2009). Conceptualizing mental health care utilization using the health belief model. Clinical Psychologhy: Science and Practice. 16(4):420-439. http://dx.doi.org/10.1111/j.1468-2850.2009.01181.x.
- IBM Corp (2011). IBM SPSS statistics for Windows. Version 20.0. Armonk. New York: IBM Corp.
- Koesten J, Schrodt P, Ford DJ (2009). Cognitive flexibility as a mediator of family communication environments and young adults' well-being. Health Communication. 24(1):82-94. doi: 10.1080/10410230802607024.
- Komiya N, Good GE, Sherrod NB (2000). Emotional openness as a predictor of college students' attitudes toward seeking professional psyhological help. Journal of Counseling Psychology 47(1):138-143.
- Knowdell RL, Chapman EN (1993). Personal counseling: helping others help themselves. Third Edition. A Fifty-Minute Series Book.
- Laireiter A, Willutzki U (2005). Personal therapy in cognitive-behavioral therapy: Tradition and current practice. In J. Geller, J. Norcross, and D. Orlinsky (Eds.), The Psychotherapist's Own Psychotherapy. New York: Oxford Press.
- Lounsbury JW, Smith RM, Levy JJ, Leong FT, Gibson LW (2009). Personality characteristics of business majors as defined by the Big Five and narrow personality traits. Journal of Education for Business 84:200-205. doi:10.3200/JOEB.84.4.200-205
- Martin MM, Anderson CM (2001). The relationship between cognitive flexibility and affinity seeking strategies. Advances in Psychological Research 4:69-76.
- Martin MM, Rubin RB (1995). A new measure of cognitive flexibility. Psychological Reports 76(2):623-626. https://doi.org/10.2466/pr0.1995.76.2.623.
- Martin M, Anderson CM (1998). The cognitive flexibility scale: three validity studies. Communication Reports 11(1):1-9. https://doi.org/10.1080/08934219809367680
- McCrae RR, Costa PT (2003). Personality in adulthood: A five-factor theory perspective (2nd. ed.). New York, NY: Guilford Press.
- McLeod J (2003). An introduction to counselling. Third Edition. Open

University Press.

- Murdock KW, Oddi KB, Bridgett DJ (2013). Cognitive correlates of personality. Journal of Individual Differences 34(2):97-104.
- Nicholas J, Oliver K, Lee K, O'Brien M (2004). Help-seeking behaviour and the Internet: An investigation among Australian adolescents . Australian e-Journal for the Advancement of Mental Health (AeJAMH) 3(1):1-8.
- Norcross JC (2005). The Psychotherapist's Own Psychotherapy: Educating and Developing Psychologists. American Psychologist 60(8):840-850. http://dx.doi.org/10.1037/0003-066X.60.8.840
- Norcoss JC, Guy JD (2007). Leaving it at the office: a guide to psychotherapist self-care. New York: Guilford Press.
- Skovholt TM, Jennings L (2004). Master therapist: exploring expertise in therapy and counseling. Oxford University Press.
- Stah L, Pry R (2005). Attentional flexibility and perseveration: developmental aspects in young children. Child Neuropsychology 11(2):175-189.
- Sümer N, Sümer HC (2005). Beş faktör kişilik özellikleri ölçeği (Yayınlanmamış çalışma) Unpublished article.
- Orlinsky DE, Rønnestad MH (2005). How psychotherapists develop: A study of therapeutic work and professional growth. Washington, DC: American Psychological Association.

- Tijhuis MR, Peters L, Foets M (1990). An orientation toward helpseeking for emotional problems. Social Science and Medicine Journal 31:989-995. https://doi.org/10.1016/0277-9536(90)90108-5
- The ACA (2009). The ACA encylopedia of counseling. Wiley Publications.
- Topkaya N (2011). Psikolojik yardım alma niyetinin sosyal damgalanma, tedavi korkusu, beklenen yarar, beklenen risk ve tutum faktörleriyle modellenmesi. Yayınlanmamış doktora tezi. Ege Üniversitesi Sosyal Bilimler Enstitüsü, İzmir.
- Vogel DL, Wester SR (2003). To seek help or not to seek help: The risks of self-disclosure. Journal of Counseling Psychology 50:351-361.http://dx.doi.org/10.1037/0022-0167.50.3.351.
- Vogel DL, Wade NG, Hackler AH (2007a). Perceived public stigma and the willingness to seek counseling: the mediating roles of self-stigma and attitudes toward counseling. Journal of Counseling Psychology 54(1):40-50. http://dx.doi.org/10.1037/0022-0167.54.1.40.
- Vogel DL, Wester. SR, Larson LM (2007b). Avoidance of counseling: psychological factors that inhibit seeking help. Journal of Counseling and Development 85:410-422.http://dx.doi.org/10.1002/j.1556-6678.2007.tb00609.x