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# Predictive Relationship between Humane Values of Adolescents Cyberbullying and Cyberbullying Sensibility

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## Abstract

**Introduction.** Cyberbullying has been more common than the traditional bullying in recent years. As with the traditional bullying, humane values likely to explain the reason why adolescents tend to bully via cyber-means. Cyber-bullying behaviors also reasoned by adolescent's sensibility towards it. This study investigates the predictive relationships between humane values of adolescents, cyber-bullying and cyber-bullying sensibility.

**Method.** The study consisted of a total 1743 participants from different middle schools in Istanbul, Konya, Mersin, Ordu and Bursa (Turkey). 963 of the participants were females and 780 were males. The study group was selected among adolescents studying at the above mentioned secondary schools by a random cluster sampling method. The study employed the "Humane Values Scale," the "Cyberbullying Scale" and the "Cyberbullying Sensibility" scale. Predictive relationships between humane values of adolescents, cyberbullying and cyberbullying sensibility were analyzed with the "Structural Equivalence Model" by using the AMOS 19 computer program.

**Results.** Results of the study revealed that each of the humane values like respect, being peaceful, friendship and responsibility are statistically meaningful predictors of cyberbullying sensibility. Besides it was seen that honesty and being peaceful are significant predictors of cyberbullying.

**Discussion and Conclusion.** Rise in adolescents' level of humane values has an important role in increasing sensitivity against cyberbullying. In this sense, a decrease can be observed in also the tendencies to cyberbullying of the adolescents whose sensitivity has increased. On the other hand the result shows that a rise in adolescents' values of being peaceful will increase their tendencies of cyberbullying sensibility. It is estimated that a rise in adolescents' values of friendship and responsibility will increase their cyberbullying sensibility.

**Keywords:** Cyber-Bullying, Humane Values, Cyber-Bullying Sensibility, Structural Equivalence Modeling

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*Final acceptance: 03.02.16*

# Relaciones predictivas entre los valores humanos de los adolescentes, el acoso cibernético y la sensibilidad al acoso cibernético

## Resumen

**Introducción.** El acoso cibernético ha sido más común que el acoso tradicional en los últimos años. Al igual que con el bullying tradicional, los valores humanos pueden explicar la razón por la que los adolescentes tienden a intimidar a través de cyber-medios. Los comportamientos de Cyber-bullying también son razonados por la sensibilidad de los adolescentes hacia ello. Este estudio investiga las relaciones predictivas entre los valores humanos de los adolescentes, el acoso cibernético y la sensibilidad al acoso cibernético.

**Método.** El estudio consistió en un total de 1743 participantes de diferentes escuelas secundarias en Estambul, Konya, Mersin, Ordu y Bursa (Turquía). 963 de los participantes eran mujeres y 780 eran varones. El grupo de estudio fue seleccionado entre los adolescentes que estudian en las escuelas secundarias mencionadas anteriormente por un método de muestreo aleatorio por conglomerados. El estudio empleó una *Escala de Valores Humanos*, una *Escala Cyberbullying* y la *Escala sensibilidad al ciberacoso*. Las relaciones predictivas entre los valores humanos de los adolescentes, el acoso cibernético y el acoso cibernético de sensibilidad se analizaron con un Modelo de Equivalencia Estructural, utilizando el programa informático AMOS 19.

**Resultados.** Los resultados del estudio revelaron que cada uno de los valores humanos como el respeto, ser pacífico, la amistad y la responsabilidad son estadísticamente predictores significativos de la sensibilidad al ciberacoso. Además, se observó que la honestidad y ser pacífico son predictores significativos de acoso cibernético.

**Discusión y conclusión.** El aumento en el nivel de los valores humanos de los adolescentes tiene un papel importante en el aumento de la sensibilidad contra el acoso cibernético. En este sentido, puede observarse una disminución en las tendencias al cyberbullying de los adolescentes cuya sensibilidad ha aumentado. Por otro lado, el resultado muestra que un aumento en los adolescentes con valores a ser pacíficos aumentará sus tendencias del cyberbullying de sensibilidad. Se estima que un aumento de los adolescentes en los valores de amistad y responsabilidad aumentarán su sensibilidad al problema del ciberacoso.

**Palabras clave:** Ciberacoso, valores humanos, Ciberacoso sensibilidad, Modelado de Equivalencia Estructural.

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## Introduction

Due to the intangible and perceptive nature of the concept, it is difficult for the term ‘value’ to possess a common definition accepted by majority. One will come across with different definitions of the concept when performing a literature review. Kohlberg (1981) interpreted the concept of ‘value’ as judging and acting with moral perceptions. While Hill (1991, defines the term as the beliefs held by individuals to which they attach special priority or worth, and by which they tend to order their lives. Veugelers (2000) comments on the term as values are constructs, that people can make choices, and that in making choices they reason and think about what to do and what to believe. Values are desirable trans situational goals, varying in importance, that serve as guiding principles in the life of a person or other social entity (Schwartz, 1994). Because the term ‘value’ is present in many different fields and different theorists associate the term with different concepts, it is difficult to set a common definition for the term (Dilmaç, 2007; Dilmaç, Kulaksızoğlu and Ekşi, 2007). In the early 1990s, official bodies such as the *School Curriculum and Assessment Authority* (SCAA) used ‘values’ as a key term in their attempts to define spirituality and morality: ‘values are the principles that inform judgments as to what is morally good or bad’ (SCAA, 1996, p. 10).

According to Warnock (1996), values are either adopted or refused by the society or individual. The term ‘values’ in the literature (e.g., Kluckhohn, 1951; Kluckhohn & Strobeck, 1961; Hofstede, 1980; 2001; Schwartz, 2006), can be defined as the beliefs that are held individually or collectively, perceived consciously or unconsciously, communicated explicitly (verbally articulately) or implicitly (symbolically), used as the criteria for cognitive, affective, or behavioral judgments to guide our choices out of available options, as they influence society, while society influences them (Shearman 2008). Morrow (1989) approached the concept of value from a different perspective and argued to mention rules and principles along with the term. He thinks values have the same meaning with rules and principles in the society. When the definitions which handle over values in the view of an individual are examined perspective, Halstead and Taylor (1996) defines values as convictions and principles guiding our behaviors; standards used to decide whether certain behaviors are righteous or wrongful. Thomas (1992) on the other hand, defined the values as, thoughts accepted as beliefs by the individuals but not verified by the society. Values are important factors guiding the ways of

our lives and how to organize them. As we have mentioned earlier, values are the choices of individuals and individuals make up the society, which in turn means that just as priorities become values of individuals, they become values of the society. Furthermore, values are more than just simple beliefs. Because believing in a value also means to comply with the behaviors in accordance with the value. However, setting this connection is not so easy. One must adapt to the environment while acting according to a certain value. Just as Pring (1984) stated, society must be suitable for a certain behavior to be exhibited. When an individual's behavior does not comply with the norms of the society, unpleasant situations and formations contradicting with the structure of the society are likely to occur. De la Fuente, Peralta and Sánchez (2006) stated interdependency relationships between social values and social maladjustment. Such inevitable formations trigger people's aggressive impulses and as a result, bear victims to such aggressions.

Aggression has been a major problem among all domains of life and throughout the history of mankind, from the primitive communities to the most civilized societies. However, it has been even more prominent, extensive and intense lately (Gökler, 2009). Aggression, with a general definition, can be considered as abrupt and damaging physical intervention on another person. Although bullying is a concept within the concept of aggression, a behaviour featuring just aggression can not be called 'bullying'. *Bullying* is usually defined [e.g., Olweus, 1999, Figure 1.1] as "a systematic abuse of power" subset of aggressive behavior characterized by repetition and an imbalance of power. The definition Facilities brought by the technology and the wide use of it by adolescents, enabled them to bully via the technology, which extended the traditional bullying concept and brought out a new concept of cyberbullying (Ayas and Horzum, 2010). Cyber-bullying can be defined as; facilitation of ongoing and deliberate harassment and threatening of an individual or a group of people intentionally by sending rude texts or views, deliberate, repetitive and hostile acts with intention to give harm to an individual or a group of people, involving the use of information and communication technologies like e-mails, cellular phones, pagers, sms services, and web-sites (Arıcak, 2009; Ang and Goh, 2010; Belsey, 2008; Berson, Berson and Ferron, 2002; Finkelhor, Mitchell and Wolak, 2008; Mason, 2008; Patchin and Hinduja, 2006; Willard, 2007; Ybarra and Mitchell, 2004a, 2004b; Totan, 2007; Wright & diğ, 2009).

Studies (Patchin and Hinduja, 2006; Slonje and Smith, 2008) revealed that adolescents intensely use information and communication Technologies including cellular phones, computers, internet, Olweus'a (1999) according violence, as a person's physical or another

individual using an objective can be considered a serious injury or harm is satisfactorily. PDA's. Websites intended for communication (blogs, social networks, video and Picture sharing websites) are also common among adolescents (Subrahmanyam and Greenfield, 2008). Communication with friends and relatives and access to any required information via internet are good aspects.

As with other social environments, however, the potential to meet and interact with others in possibly harmful ways exists (Ybarra, Diener-West and Leaf, 2007). Valkenburg and Soeters (2011), counted increase in the possibility of coming across with pornographic displays and violent materials, disclosure of personal information to others via information and communication technologies means and come to contact with those others in real life. Vandebosch and Van Cleemput (2008) looked at the number of times that certain negative aspects associated with the Internet and with mobile phones were mentioned during a study on the youngsters and had a rough idea about the problems and dangers that most concerned the youngsters. They found those (in order of diminishing frequency) being contacted by strangers (mentioned 52 times), computer viruses (49), hacking (38), pedophilic attempts (22), cyberbullying (20), threats (17), spam (17), stalking (14), e-advertising (14), sexual intimidation (12), pornographic Web sites (11), people who turn on their webcam unwanted (10), the cost of the communication (10), technical failure (10), health-related problems (5), and the content of certain Web sites (3). Scaglione and Scaglione (2006) reported that transfer of traditional bullying to the virtual environment is the major negative effect and is called cyber-bullying. Patchin and Hinduja (2006), states that individuals can hide behind some measure of anonymity when using their personal computer or cellular phone to bully another individual, which perhaps frees them from normative and social constraints on their behavior.

Researches reveal that cyber-bullying has serious impacts on school life. Beran and Li (2007) found that the school scores of cyber-victims fall suddenly, Raskauskas and Stoltz (2007) found that they avoid attending classes and Varjas, Heinrich and Meyers (2009) found that they do not perceive school as a secure place. Abrupt score drops of cyber-victims at school may be the result of lack of concentration and feeling excluded and helpless (Patchin and Hinduja, 2006). One of the important findings on the effects of cyber-bullying on school performance is revealed by the study of Ybarra, Diener-West and Leaf (2007). They found relation between being subject of intense cyber-bullying and truancy, school dropouts, bringing guns to school and being arrested. Adolescents should stay away from such stimuli in order not to be a subject of such treatments. And this requires them to be sensitive. Sensitivity

can be expressed as keeping away from threatening stimuli and avoid coming across with them (Bayezid, 2000). Threats, which cause sensitivity can either be physical danger situations or prohibited urges, or just related to prevent from dysphoric feelings. Sensitizers have low arousal threshold against threats. Sensitizers, are extremely vigilant with regard to threatening situations or stimuli. Such individuals constantly scan the environment for potentially threatening stimuli, seeking to identify them and to respond to them in a way that minimizes their capacity for doing harm (Budd, Clopton, 1985).

### *Aims and hypotheses*

In this context, susceptibility towards cyber-bullying can be defined as ‘avoiding behaviors which may cause to become a victim of misuse of cyber devices such as internet and cellular phones, being aware of the fact that these such threats are possible, and taking measures against them, keeping high attention to notice such threats’. (Tanrikulu, Kınay, and Arıcak, 2011). Susceptibility towards cyber-bullying should be investigated with both experimental and relational investigations (Tanrikulu, Kınay, and Arıcak, 2011). The purpose of this experiment in this context is to find out the predictive relationships between humane values of adolescents, cyber-bullying and susceptibility towards cyber-bullying.

In accordance with the aim of the research, below hypotheses will be tested:

1. Each of the sub-dimensions of the Humane Values Scale has an effect on cyberbullying sensibility.
2. Each of the sub-dimensions of the Humane Values Scale has an effect on cyberbullying.
3. Cyberbullying sensibility has an effect on cyberbullying.

## **Method**

### *Participants*

Participants in this study consisted of students who studied at different secondary schools. There were a total of 1743, 963 female (55 %) and 780 (45 %) male. The study group was selected among adolescents studying at the above mentioned secondary schools by random



## *Instruments*

*Humane Values Scale* (Dilmaç, 2007). HVS In the scale, humane values process was measured by 42 items in six different dimensions consisting of a. Responsibility (7 items), b. Friendship (7 items), c. amiability (7 items), d. Respect (7 items), e. Tolerance (7 items), f. Honesty (7 items). The scale was a Likert-type scale which could be applied individually or as a group. The responses for each item were stated in a five-point grading system (A: Never, B: Seldom, C: Sometimes, D: Often, E: Always). The items were graded as A: 1, B: 2, C: 3, D: 4 and E: 5. The higher scores one received indicated that the higher levels of humane values he/she had. Internal reliability coefficient (Cronbach Alpha) was used to determine the reliability in IDO. The alpha coefficients for the aforementioned sub-scales were calculated to be .73, .69, .65, .67, .70, and .69, respectively. The overall internal reliability coefficient for the 42-item scale was found alpha .92. The stability factor was found .73 for Responsibility, .91 for Friendship, .80 for Pacifism, .88 for Respect, .79 for Tolerance and .75 for Honesty. The stability coefficient for the whole scale was found to be, .87.

*Cyberbullying Scale* (Arıcak, Kinay and Tanrikulu, 2012). 24 items thought to reflect cyberbullying behaviors were determined. The study used exploratory factor analysis to determine construct validity of the scale, Cronbach Alpha analysis to calculate reliability coefficient and Spearman Rho correlation technique to find test-retest reliability coefficient. The single factor accounted for the 50.58% of the overall variance. The factor loads of the items under single factor ranged between .49- .80. The Cronbach alpha coefficient for the whole scale was calculated .95 while test-retest reliability coefficient was .70. Consisting of 24 items, the scale is answered on a four-point scale (Never, Sometimes, Usually, Always). A response of “Never” was scored 1, “Sometimes” 2, “Usually” 3 and “Always” 4. The theoretical scores in the scale ranged between 24- 96. A higher score in the scale represented higher levels of cyberbullying. There was no item requiring reverse scoring.

*Cyberbullying Sensibility Scale* (Tanrikulu, Kinay and Arıcak, 2013). In order to determine adolescents’ sensibility towards cyberbullying, Cyberbullying Sensibility Scale, developed by Tanrikulu, Kinay and Arıcak (2013) has utilized. Consisting of 13 items, the scale was answered on a three point Likert type scale. (Yes, Sometimes, No). The scale was scored as 1 for a response of “No”, 2 for “Sometimes” and 3 for “Yes”. The lowest score that one

could receive from the scale was 14, while the highest score was 42. The higher scores in the scale indicated higher levels of cyberbullying sensibility.

Based on the data collected, 15 items thought to reflect cyberbullying behaviors were determined. Exploratory factor analysis was used to test structure validity of the scale, Cronbach Alpha analysis to calculate internal reliability coefficient, and Pearson correlation techniques to find test-retest reliability coefficient. Moreover, confirmatory factor analysis of the scale was conducted in AMOS 19 program; the structure found in exploratory factor analysis was tested by confirmatory factor analysis. Taking into account the component matrix in the first analysis, all the items was found to cluster under a single factor except for the second one. For this reason, the factor analysis was repeated by extracting the second item and it was observed that all the items clustered under the first factor. This single factor accounted for 27.7% of the overall variance. The factor loads under a single factor ranged between .32- .73. The acquired single-factor structure was tested by confirmatory factor analysis, and the model was found to be appropriate at an acceptable level ( $\chi^2/df = 2.06$  and RMSEA=.078). The remaining 14 items in the scale significantly clustered under a single factor. The Cronbach alpha coefficient for the overall scale was calculated .79 while test-retest reliability coefficient was found to be .67.

### *Procedure*

Data collection of this research was carried out at a single session and took about 25 minutes. Researchers themselves delivered the questionnaires and voluntariness was taken into account as a priority in participating.

### *Data Analysis*

In the present study, correlational survey design was used. Relational survey is conducted to determine the relationship between two or more variables and gain some insights about causal relations between them (Buyukozturk et.al., 2008). This study investigated the predictive correlations among humane values of adolescents, cyberbullying and cyberbullying sensibility.

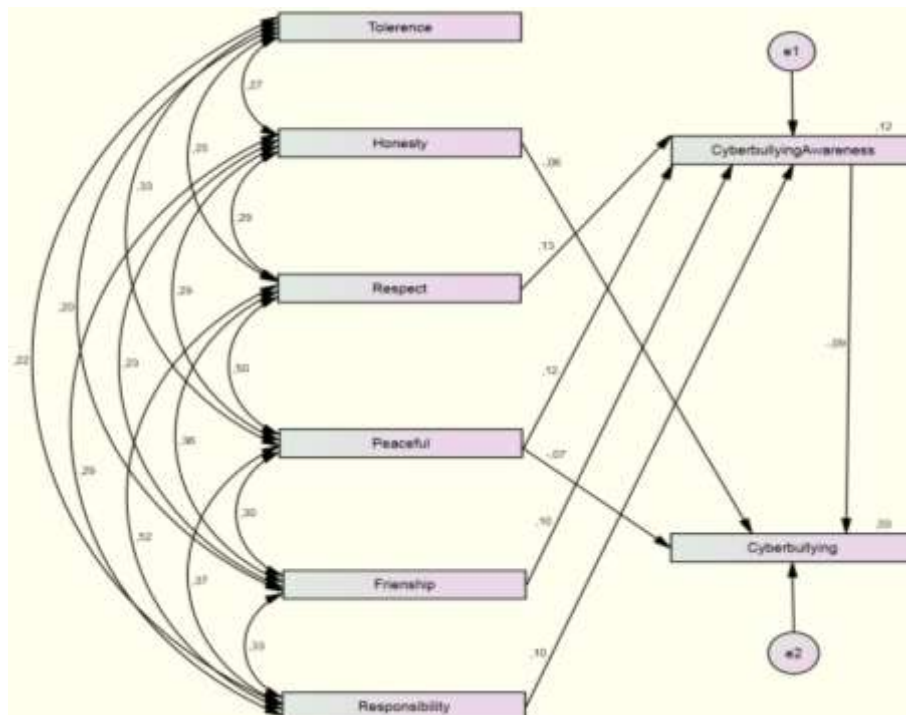
In this study, the predictive correlations among humane values of adolescents, cyberbullying and cyberbullying sensibility were analyzed according to “Structural Equivalence Model” by using AMOS 19 program. The structural equivalence modeling is a statisti-

cal approach which reveals the causal and mutual relationships between the observable and latent variables in order to test a theoretical model (Shumacker and Lomax, 2004). The suggested model related to the correlation between humane values and cyberbullying is given in the Figure 1.

## Results

The model includes six exogenous (Tolerance, honesty, respect, peaceful, friendship and responsibility) and two endogenous variables (Cyberbullying Sensibility and Cyberbullying). All paths statistically significant in the model (Table 2).

The Bentler-Bonett normed fit index (NFI), The Tucker-Lewis coefficient fit index (TLI) and the other fit indices indicate that the model perfectly fit the data ( $X^2 = 6.29$ ,  $df = 6$ ,  $p = .39$ ). The correlations between all endogenous variables have moderate values and statistically significant. ( $0.2 < r < 0.5$ ) The situation natural result of the humane values scale, include high relationship subscales, used in the model. Endogenous variables in this study are discussed in many studies about values and the endogenous variables showed a highly significant relationship to each other (Dilmaç, 2007; Dilmaç, Kulaksızoğlu and Ekşi, 2007; Schwartz and Boehnke, 2004; Schwartz, 1992). Only significant path are in the model.



**Figure 1. The related Model of predictive Relationships between Humane Values, Cyberbullying and Cyberbullying sensibility (n=1743).**

**Table 1. The Criterion References of the Related Structural Equation Model**

Criterion References	Perfect Fit Indices	Acceptable Fit Indices	The Model Indices
( $\chi^2$ /sd)	$\leq 3$	$\leq 4-5$	1,049
RMSEA	$\leq 0,05$	0,06-0,08	0,005
NFI	$\geq 0,95$	0,94-0,90	0,997
CFI	$\geq 0,97$	$\geq 0,95$	1,000
GFI	$\geq 0,90$	0,89-0,85	0,999
AGFI	$\geq 0,90$	0,89-0,85	0,995
TLI	$\geq 0,95$	0,94-0,90	0,999

References: Hu and Bentler, 1999; Meydan and Şeşen, 2011.

Table 2 shows that the most effective variable on Cyberbullying Sensibility was respect ( $t=4.61$ ,  $p<.01$ ). The coefficient value between Cyberbullying Sensibility and respect was  $\beta = .43$ . There was a positive and linear relationship between Cyberbullying Sensibility and respect. This finding suggested that an increase in adolescents' respect value would positively contribute to their Cyberbullying Sensibility.

**Table 2. Decomposition of total effect for the Model of predictive Relationships between Humane Values, Cyberbullying and Cyberbullying sensibility**

Predictor variable	Dependent variable	Total effect a	Direct effect	Indirect effect	Standard error	Critical ratio (t)
Friendship	Cyberbullying Sensibility	0,10	0,10	0	0,03	4,03**
Respect	Cyberbullying Sensibility	0,13	0,13	0	0,04	4,61**
Responsibility	Cyberbullying Sensibility	0,10	0,10	0	0,04	3,72**
Peaceful	Cyberbullying Sensibility	0,12	0,12	0	0,03	4,62**
Honesty	Cyberbullying	-0,06	-0,06	0	0,09	-2,47**
Peaceful	Cyberbullying	-0,09	-0,08	-0,01	0,08	-2,93**
Cyberbullying Sensibility	Cyberbullying	-0,09	-0,09	0	0,06	-3,79*

a: Total effect = Direct effect + Indirect effect, \*\*  $p < .01$ , \*  $p < .05$ .

The second most effective variable on Cyberbullying Sensibility was Peaceful ( $t=4.61$ ,  $p<.01$ ). The coefficient value between Cyberbullying Sensibility and Peaceful was  $\beta = .12$ . There was a positive and linear relationship between Cyberbullying Sensibility and Peaceful. This finding also showed that an increase in adolescents' Peaceful value would positively contribute to their Cyberbullying Sensibility. The other independent variables that affected Cyberbullying Sensibility were Friendship and Responsibility ( $t=4.03$ ,  $p<.01$ ;  $t=3.72$ ,  $p<.01$ ).

The value for each of the coefficients of these factors was found to be  $\beta = .12$ . The both variables showed a positive linear relationship between Cyberbullying Sensibility. It can be said that an increase in adolescents' Friendship and responsibility values would positively contribute to their Cyberbullying Sensibility.

The variables described above, respect, Peaceful, Friendship and responsibility values explained 12% of Cyberbullying Sensibility ( $R^2=12$ ). Thus, it was clear that respect, Peaceful, Friendship and responsibility values impact on Cyberbullying Sensibility.

In Table 2, the effective variables on Cyberbullying were Peaceful, Honesty values and Cyberbullying Sensibility ( $t=-2.47, p<.01$ ;  $t=-2.93, p<0.01$ ;  $t=-3.79, p<.05$ ). Connection for each of the coefficients of these factors were found to be  $\beta = -.06$ ;  $\beta = -.09$ ;  $\beta = -.09$ . The both variables showed a negative linear relationship between Cyberbullying. This finding indicates that an increase in adolescents' Peaceful, Honesty values and Cyberbullying Sensibility would negatively contribute to their Cyberbullying. In Table 2, the indirect effect variables on Cyberbullying were Peaceful, Responsibility and Respect values. Connection for each of the coefficients of these factors was found to be  $\beta = -.01$ . The both variables showed a negative linear relationship between Cyberbullying. This finding shows that an increase in adolescents' Responsibility, Respect and Peaceful values would negatively contribute to their Cyberbullying. Honesty, Responsibility, Peaceful values and Cyberbullying Sensibility had different level effect on Cyberbullying, explained 3% of Cyberbullying ( $R^2=3$ ). Thus, it was clear that this variables impact on Cyberbullying.

### Discussion and Conclusions

The result of the study revealed that each of the humane values like respect, being peaceful, friendship and responsibility are statistically meaningful predictors of cyberbullying sensibility to cyberbullying. Besides it was seen that honesty and being peaceful are significant predictors of cyberbullying. Increasing adolescents' values of honesty and being peaceful shows it will decrease their cyberbullying. In the literature a direct finding that is appropriate to the model of this research and in parallel with its findings could not be found. Although there are not direct findings, we are going to try to do the discussion in this part by giving indirect findings which we think are relevant to the study. The findings of the research that was carried out by Dilmaç and Aydoğan (2010) in order to examine the relationship between the humane values and cyberbullying of secondary school students support the findings of this

research. In research findings it is expressed that there is a relationship between secondary school students' values of responsibility, friendship, being peaceful, respect, tolerance, honesty and their cyberbullying. Besides, on their research conducted with high school students, Peker, Eroglu and Ada (2012) discovered significant relationships between emphatic tendency, cyberbullying and cybervictimization. They had reported a positive and significant relationship between cybervictimization and cyberbullying and a negative and significant relationship between emphatic tendencies, cyberbullying and cyberbullying sensibility.

In a research carried out by Dilmaç (2009) to find out the relationship between cyberbullying and personal characteristics, the ones who are not bully-victims have more persistent characteristic compared to self-victims and bully-victims. Persistency is the only variable that predicts cyberbullying. When the values of persistency rise, cyber victimization rate falls. Similarly, Rahey (2007) put forth that when the persistency between friends rises, physical victimization falls. Another similar finding in that research was that persistency predicts the possibility of involving in a cyberbullying in the future negatively. For this reason, it is stated that persistence is a negative psychological feature with respect to cyberbullying. Another research finding revealed by Dilmaç (2009) is that the ones who are not bully-victims indicate that they have less affiliation features than bully-victims. Affiliation predicts the possibility of cyber victimization (victimhood) and involving in a cyberbullying in the future. Pellegrini and Bartini (2002) state that social affiliation prevents victimhood. The findings of our research supports this statement. Another finding of the research is Humane Values Scale's sub-dimension of being peaceful also predicts cyberbullying. Existing literature shows that there is a strong relationship between aggression and cyberbullying (Beran and Li, 2005; Chisholm, 2006; David-Ferdon and Hertz, 2007; Harman et al., 2005; Yaman, Karakilah and Dilmaç, 2012; Willard, 2007). In his research Dilmaç (2009) ascertained that aggression predicts both involving in cyberbullying (as bully) and the possibility of involving in cyberbullying in the future. As can be seen, these findings support the findings of our research.

According to Cunningham (2007), Haynie et al. (2001) and Pellegrini, Bartini and Brooks (1999) bullies, victims and bully-victims have different psychological and social characteristics from each other. Adolescent bullies generally tend to be very emotional and their self-control is low. It was observed that bullies display both proactive and reactive aggressive behaviors and they use proactive aggression to establish supremacy and to be leader in peer groups (Barco, Castaño, Carroza, and Ramos, 2011; Juvonen, Graham and Shuster, 2003;

McKenney, Pepler, Craig and Connolly, 2006; Pellegrini, Bartini and Brooks, 1999). Yaman and Peker (2012) determined that cyberbullying behavior exhibited by students are categorized as cyber verbal language, cyberforgery, and hiding identity. According to the results of their study, Yaman and Peker (2012) indicated that the reasons for cyberbullying include gaining social popularity, struggling boredom, and making revenge. The findings of this study indicated that students maintain cyberbullying to feel well, empower friendships, and enjoy their time and that students feel anger, sadness, and revenge when they experience cybervictimization.

In Patchin and Hinduja's study, nearly 30 percent of the adolescents expressed that they became a victim of cyberbullying by being ignored, not being respected, nicknaming, threatening, teasing, scoffing or spreading gossip (Patchin and Hinduja, 2006). When it is asked to cyber-victims how they felt themselves after exposure to bullying, one of the victims stated that s/he had felt angry, sad, depressed, hurt, stressed and frustrated and the other one said s/he had been weak, insulted, so lonely and helpless (Kowalski and Witte, 2006). As well as low academic performance, psychological effects such as depression, loneliness, weakness in social relationships, low self-esteem, sadness, anger, fear, anxiety and paranoid thoughts are seen in individuals living such kinds of negative feelings (Benan and Li, 2005, Hawker and Boulton, 2000, Nishina, Juvonen and Witkow, 2005). Rise in adolescents' level of humane values has an important role in increasing sensitivity against cyberbullying. In this sense, a decrease can be observed in also the tendencies to cyberbullying of the adolescents whose sensitivity has increased. The discussion of the finding will be done between themselves because no research finding could be found about the cyberbullying sensitivity in the literature.

A positive and linear relationship was found between the respect values of adolescents and their cyberbullying sensibility. In other words, this result presents that adolescents' tendencies of cyberbullying sensibility will increase when their respect values rises. A positive and linear relationship was discovered between adolescents' values of being peaceful and their cyberbullying sensibility. In other words, this result shows that a rise in adolescents' values of being peaceful will increase their tendencies of cyberbullying sensibility. It is estimated that a rise in adolescents' values of friendship and responsibility will increase their cyberbullying sensibility. It is seen that values that effect the cyberbullying sensibility at different levels such as respect, being peaceful, friendship and responsibility explain twelve percent of the cyberbullying sensibility ( $R^2 = 0,12$ ). These findings show that each value like re-

spect, being peaceful, friendship and responsibility is an important explicator of the cyberbullying sensibility. It is seen that adolescents' cyberbullying sensibility increases as their value levels rise, which means their tendencies to cyberbullying decrease.

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