

Effects of School Shooting on School Climate: A Review of Social Bond Theory

Okulda Silahlı Saldırının Okul İklimi Üzerindeki Etkileri: Sosyal Bağ Teorisinin Gözden Geçirilmesi

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ABSTRACT

It has been aimed to examine the relationship between how school shooting disrupts school climate and what are the consequences of this situation. Although school shooting is among the primary problems of society from time to time, it is in reality an issue to which society pays attention only when such an event breaks out. School shooting, on the other hand, has a devastating impact on students, teachers, and other school staff, as well as deeply shaking the school climate. At this point, Social Bond Theory has been used as a theoretical framework to understand the effects of school shooting. The theory proposes that when school shooting occurs students precisely de-attach from school, therefore from the society. They do not commit to social norms and rules, and eventually lose their faith in society as a result of the school shooting. In this study, the effects of school shooting on the school climate were discussed and some prevention suggestions were developed.

Keywords: School shooting, Social Bond Theory, school climate

ÖZ

Okulda silahlı saldırı, zaman zaman toplumun temel sorunları arasında yer alsa da, gerçekte böyle bir olay çıktığında toplumun dikkat ettiği bir konudur. Öte yandan okulda ateş etme, öğrenciler, öğretmenler ve diğer okul personeli üzerinde yıkıcı bir etkiye sahip olduğu gibi okul iklimini derinden sarsmaktadır. Bu noktada Sosyal Bağ Teorisi, okulda silahlı saldırıların etkilerini anlamak için teorik bir çerçeve olarak kullanılmıştır. Teori, okulda silahlı saldırı gerçekleştiğinde özellikle öğrencilerin okuldan, dolayısıyla toplumdan bağlarını kopardığını öne sürer. Öğrenciler, sosyal normlara ve kurallara bağlı kalmazlar ve sonunda topluma olan inançlarını kaybederler. Bu çalışmada, okulda yaşanan silahlı saldırıların okul iklimini nasıl etkilediği tartışılmış ve bazı önleme önerileri geliştirilmiştir.

Anahtar Kelimeler: Okulda silahlı saldırı, Sosyal Bağ Teorisi, okul iklimi

INTRODUCTION

School shootings are studied by researchers from various disciplines in order to understand this phenomenon and to take measures to prevent it. Researchers especially focus on reasons and dynamics of school shootings (1). While various

disciplines focus on different aspects of this criminal behavior, a comprehensive and interdisciplinary viewpoint seems to be necessary for a wider comprehension. As Böckler, Seeger et al. (2) stated, it is better for researchers to focus on violence affirming settings. Violence in the school has many sources,



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as do risky behaviors that can precede school violence, like bringing guns to school. The research to understand school violence generally focused on implicit reasons such as parent-child relationship, substance use, having a history of violence, and bullying (3,4). According to recent research, children and adolescents bring guns to school for a number of reasons, including fear of victimization and peer pressure (5). However, in particular, offenders have generally been looked at from a mental health standpoint (6). A majority of this literature has pointed depression, anger, anxiety, and fear as risk factors for both school violence and risky behaviors like gun carrying (7-9). Undoubtedly, all kinds of actions that occur in the school somehow affect the functioning of the school, the behavior of the students and the school-student symbiosis. Shooting at school or actions using any weapon damage this symbiosis. Although there are not many studies examining the effects of school shootings, it is known that violent acts have impacts on school climate.

School climate is a complex construct used to describe characteristics of interactions among adults and students at school (10). It includes norms, values and expectations related to school yet it is not limited to these factors. Students' and school personnel's experiences of school life, interpersonal relationships, organizational structure and learning practices are also determinable in school climate. Studies on this field revealed that school climate is critical for both students' and teachers' experiences. School climate is often measured using student perceptions of how they get along with each other and are treated by school staff (10-12). One of the most frequently used markers of school climate is students' perceptions of whether teachers (and other school staff) care about them and treat them fairly (10). Student perceptions of supportive school climate have been linked to student adjustment, commitment to learning, and academic achievement (11), as well as school safety (12).

School climate has impacts on not only students' academic achievement but also on their behavior. From a psychological view, several theories like Bronfenbrenner's ecological model (13) and attachment theory (14) emphasize on the importance of quality of school climate and interpersonal relationships in school. Students' perceptions of school climate contribute to their behavioral and emotional adjustment (15). In particular, school climate acts as a protective factor, moderating the effects of certain risk variables (16). Kuperminc et al. (15), for instance, found that a positive school climate buffered the negative effects of self-criticism and lack of self-efficacy on the adjustment of 10-to-14-year-old students. On the contrary low quality of school climate would have a negative impact on students', teachers' and staffs' behavior. In this paper, it aimed to examine the relationship between how school shooting disrupts school climate and what are the consequences of this

situation. It is proposed that school climate may cause and trigger delinquent behavior.

MATERIALS and METHODS

Social Bond Theory

From the criminological perspective, social environment is one of the key elements for both emergence and prevention of crime. Hirschi's (17) Theory of Social Bond claims that a person's bond to society prevents them from committing crime. The theory is developed by Travis Hirschi in order to understand juvenile delinquency. Theory of Social Bond which is considered as social control theory in criminology was offered in his book "Causes of Delinquency". According to his theory, social bond is formed by four elements: attachment, commitment, involvement and belief. Attachment refers to personal level connection to family, peers, teachers and other people. This emotional status towards others makes us to control our behavior. Another element is commitment which refers to engagement to conventional goals. For instance, if a student has educational goals for future, they will be reluctant to engage in any behaviour that risk their goals. Third element is involvement which refers to how much time spend in conventional activities like hobbies and sports. The idea under this component is that as an individual is too busy doing conventional things, it is harder for them to engage in criminal behavior. Last element is belief which refers to faith to social norms and moral validity of social norms. It is also related to attachment of other people and institution.

Strong social bonds to important social institutions, like family and school, have long been seen as important deterrents of delinquency and crime among adolescents and adults in the criminological literature (18). Through these social bonds, people get attached to conventional values, committed to societal norms, involved in conventional activities, and they come to believe in the moral force behind society's norms. Theory of Social Bond thus explains crime and delinquency as the result of an individual's social bonds being whether weak or nonexistent. Based on this theory, it then makes sense that school attachment, the social bond to one's school, would be important in the etiology of crime and delinquency, especially when it comes to crime and delinquency at school (19).

Pittaro (20) reviewed that school shootings are related with all four elements of social bonding theory which are attachment, commitment, involvement and belief. School shooters mostly show less attachment to their peers. It is also known that most of the school shooters do not have any future goals which mean they lack commitment. Research revealed that school shooters spend most of their times online searching for bomb making strategies and planning attacks (21). So, these students' involvement is mainly on activities related to offending

behavior. Lastly for the element of belief, it is argued that as the major motivation behind most school shootings is taking revenge, school shooters do not have belief in norms, rules and regulations.

Whereas studies mainly concentrated on reasons behind school shooting and explain it with criminological theories, damage to school safety can harm school climate. Thus, school climate is an important factor in students' academic success, and prosocial behavior, it is important to discuss impact of school shooting in terms of school climate and its effect on students. When high-profile school shootings are specifically examined, there is often an offender at the center with some sort of mental health issue, that issue being whether short-term or long-term. But perhaps this excessive focus on mental health has left the full picture of why school shootings occur unclear. There could be factors related specifically to the school environment that increase negative emotionality and risky behaviors in school (19).

Effects of School Shooting on School Climate

As school shooting also adversely affect attachment, commitment, involvement and belief of victims, violent acts in school negatively affect students' psychological well-being. Any level of school violence is problematic because it can lead to, beyond the obvious negative consequences like injury and death, a negative learning environment for students (19). Studies reveal that exposure to violence at school is highly related to drop-outs, fear of crime, decreased academic success, trauma related disorders such as PTSD, psychological distress, drug use and delinquency (22). In addition, as school safety diminishes, fear of crime increases (23) and students tend to act out more frequently, even to the degree that they can bring guns to school (24). Moreover, harm to school connectedness can result in mental health problems in students (25) which can result in delinquency and drug use problems. Hence from the social bonding perspective, school shooting can have serious outcomes on students' lives and development.

Victims of a crime can have a higher degree of fear of crime (26). Fear of crime is defined as the feeling of vulnerability to be a victim of a crime even there is no threat (27). As fear of crime is complex phenomenon that has sociological, psychological and criminological dimensions, primary victims of a crime are not the only group that develop fear of crime. Studies showed that fear of crime caused by school shootings effect not only the students at that specific school, but also other students in other schools countrywide (28). Moreover, moral panic (29) and skipping class are highly correlated with fear of crime. Another study proposes that although victimization rates are low, number of students who are afraid of being victimized at school is relatively high (30).

To sum up, school shootings are events that impact not only students and school personnel but also the school climate.

Study results indicate that school climate is an important protective factor against risky behaviours in students.

Effects on School Attachment

The term school attachment does not have a unique definition; it has been used in the sense of a connection which includes being happy at school and feeling connected to school in an emotional sense (31). According to Blum (32) positive school attachment includes having a sense of belonging and being part of a school, liking school, perceiving that teachers are supportive and caring, having good friends within school, being engaged in their own current and future academic progress, believing that discipline is fair and effective and participating in extracurricular activities (32). Attachment to school is disrupted by violent behavior. Even though there is not sufficient research on school shooting victims' attachment to school environment, there are research on victimization of bullying and other violent behavior in school. Research on bullying reveals that compared to other groups, victims of bullying are the least attached ones to school and that victims' attachment to school is also lower than that of bullies (33). School attachment is also important correlate of aggressive behavior, gun carrying, school achievement, drug use and health problems (32).

Violence and school relation engages the attention of many researchers. Studies conducted on school attachment and violence revealed that both violent behaviors and attitudes toward these behaviors are related with feelings of school attachment. Study on attitudes toward violence shows that a moderate-high degree of school attachment negatively correlates with attitudes toward violence (34). One of the studies found that both school climate and school attachment are related to physical aggression and relational aggression (35). Another study found similar results that school attachment is a predictor of violent-risky behavior like taking part in fights and threatening others (36).

One of the major impacts of school attachment is the one on risky behaviors. Study conducted in South Africa showed that substance abuse, violence related behavior, sexual risk behaviors, and suicidal ideation are related with school attachment (37). Studies found that a low degree of school bonding positively correlated with the use of alcohol and other drugs (38). Although causality link between these two factors remain vague, it is known that there is bidirectional relationship (39). It is important to notice that high level of school bonding have a protective effect on drug and alcohol use (40). Another study revealed that school attachment predicted later substance use, marijuana use and drinking behavior (41). Besides, problematic internet use which is also classified as a risky behavior is correlated with school connectedness (42). Similarly, studies related to deliberate self-harm in adolescence also showed that high school connectedness correlated with reduce risk (43). Risky behaviors related to

vehicle use like drunk driving (36), suicide ideation and risk of suicide (44), depressive symptoms (45) were also found to be related with school attachment. Depressive symptoms and school attachment both had significant associations with gun carrying at school, and accounting for school attachment reduced the depressive symptoms-gun carrying relationship to insignificance, suggesting they are only related in so far as they are both partially caused by school attachment (19).

To sum up, school attachment is a crucial factor in adolescents' lives as researchers showed that it is correlated with risky behavior, psychological well-being and violent behavior. As studies showed that there is a bidirectional relationship between violence exposure and commission, school shooting can be both the cause and the effect of violent behavior. Besides, it is known that victims of school shooting suffer from mental health problems. School connectedness is a protective factor for mental health of students and risky behaviors which can be result of mental health problems. As school shooting damages the school connectedness level of students, it may lead to other damages in students' lives.

Effects on Commitment

Another element of social bonding is commitment to conventional goals i. e. having academic goals. According to the social bond theory commitment to educational goals prevents delinquent behavior among students. Study conducted with middle class students supports this view that negative relationship found between commitment and school misconduct (46). A nationwide study conducted in Chile with 21.956 adolescents revealed that school commitment also have effect on smoking behavior. Students with good grades are less likely to engage in smoking behavior (47).

Students' commitment to educational goals is related to various factors including personal background, parental involvement, mathematics ability, school bonding and school climate (46). Students with a higher perception of bullying climate in school are found to be subjects of lower commitment to school (47). Similarly, research showed that being victim of school violence is correlated with lower academic performance (48). Studies found for students who are still enrolled to school after a shooting, their math and English test results were lower than students who transferred into a different school after the event (49). Thus, interaction of school commitment with other factors can result in different or/and more powerful risky behaviors.

Effects on Involvement

Involvement to school related activities, sports and hobbies is considered as a protective factor against delinquent behavior (50). However, studies showed that facing with violent behavior at school increase students' drop-out rates which means a decrease in students' involvement in school and school related activities (51). Study aimed to

figure out school related factors in drop-out rates revealed that students' rate of law violation is positively correlated with rate of school absenteeism (52). As mentioned above, attachment is positively correlated with school involvement and extracurricular activities (53). The outcomes of lower school involvement is still not fully understood as most of the studies focuses on the causes of absenteeism and drop-out rates instead of the effects of them. Studies have been conducted on this topic for several years revealed that absenteeism is related to academic achievement, violent behavior, risky behavior and mental health issues (51). One of the studies focused on the effects of absenteeism on students' lives found that low attendance to school cause decreases academic achievement and increases the risk of behavioral problems (54). Not surprisingly, the study found that unexcused absenteeism is found to be related with lower math and reading test scores. Moreover, according to Bridgeland, Bridgeland et al. (55), absenteeism was found to be related to lower academic performance and achievement, fewer literacy skills and grade retention.

Even though causality between school absenteeism and violence is not clear, it is well known that both exposure and commission of violence are related with school absenteeism (56). Victims and perpetrators of violence manifest lower school attendance compared to their school mates (56). Research shows that there is a bidirectional relationship between violence and school attendance especially in terms of school drop-out. Adolescents who drop out of school are more likely to engage in delinquent behavior and correlated with unemployment (57).

As high school drop outs are related to juvenile delinquency and violent behavior, it is also related with other serious problems (58). Especially absenteeism without excuse is correlated with higher rate of engagement in risky behaviors including but not limited to alcohol and drug use, violent behavior and sexual behavior (59). Meta-analysis results also support these results that truancy is one of the best predictors of drug use among youths (60). A longitudinal study showed that drug use and absenteeism have a bi-directional relationship that in some instances, drug use started after school drop-out (57). Besides another longitudinal study found that students with drug problems and high absenteeism have friends who also have problematic behaviors (61). Most of the studies found that truancy is related to mental health issues in children and youths. Study on the effects of absenteeism showed that chronic absentees suffer from internalizing problems that are characterized with feelings of isolation and disengagement (62).

Effects on Belief

Last element related to school bonding is belief to school norms, regulations and policies. School rules serve to two main aims which are to construct social regulation and foster moral

socialization. For that reason, school rules are crucial in moral development (63). Although there are studies that are related to morally and socially inappropriate behaviors of the students, there are not many studies which are related to the effects of school norms and rules on these behaviours. According to the social bonding theory, belief and attachment in societal norms and rules is one of the most critical factors that prevent criminal behavior.

School level norms found to be related to substance use, disapproval of substance abuse, and heavy drinking behavior (64). Another study related to school norms and problematic behavior revealed that peer groups' norms and school norms are important components in aggressive behavior. While group norms have direct effects on aggressive behavior, school norms moderate the group norm effect. Authors concluded that especially older children who are more aware of social norms are more likely to act in line with these norms. In other words, school norms not accepting aggressive behavior can be beneficial to provide a decrease in the engagement in aggressive behaviors among students (65).

Besides, studies indicate that students' beliefs regarding to rules are important for adapting them. Students who actively interpret and accept rules are more likely to protect and obey the rules (66). For that reasons rules must be constructed carefully. Studies indicate that belief in the fairness and consistent enforcement of rules are positively related to school commitment, school attendance and negatively related to misconduct behavior. For that reason, school rules are also part of violent behavior of children. Studies show that after a school shooting, school rules could be changed for sake of the students' safety, increased safety measurements did not decrease school violence (24).

DISCUSSION

School shooting is a concerning violent act which not only impacted students, teachers, families but also terrorize the public. Although most of the studies concentrated on the causes of school shooting, there is little research on effects of school shooting. In light of previous studies, in this paper it is proposed that Hirschi's social bond theory can be used to explain students' risky behaviours and mental health problems after school shootings. According to the social bond theory, a supportive school climate, youths' attachment to school, their involvement in school related activities and their belief in norms are crucial in development of delinquency. Previous studies on students' mental health showed four elements in Social Bond Theory are protective factors against risky behaviours like drug use and school drop-out. For that reasons, school shootings effect on students, school and the interaction between school and students should be examined. Devastating events like school shootings can cause both short term and long

term problems in students' lives. In order to protect children and youth from the harmful effects of school shootings, some precautions must be taken.

One of the factors that most of the prevention methods focus on is school attachment. School attachment refers to the relationship between students and school personnel which includes teachers, counselors and administrators. Students who have positive relationships with school personnel are less likely to engage in antisocial acts (67). Volungis and Goodman (68) theorize that teacher-student relationship plays a unique role in the development of school attachment. School counselor is a key person to help teachers to build nonjudgmental, genuine, emphatic relations with their students. Another way to form positive school climate is implementing counseling programs in school (69). Moreover, it is known that increased school attachment has protective effect on risky behaviours. In other words, students with a higher degree of school attachment are less likely to engage in smoking, drinking and delinquent behaviors (70). In line with this research result, a review study on school attachment found that intervention programs aimed to improve school attachment were successful in reducing risky behaviors in students (71).

One of the impacts of school shootings would be on mental health of the students. Studies show that Post-traumatic Stress Disorder (PTSD) is one of the mental health problems that occur as a result of traumatic events. Besides, low school bonding and fear of crime also cause mental health problems like depression, suicidality and emotional distress (72). School shootings can cause severe effects on mental health of students. Therefore, school based programs which are based on both mental health and school climate can be helpful.

Researchers showed that carefully implanted programs which target a certain type of violence and a certain population are successful at reduction of violence (73). Moreover, long term follow-ups of victims for mental health are crucial and can be achieved with the help of the school based mental health personnel (74). A multi-level analysis on school absenteeism and academic achievement showed that these two factors are bi-directionally related with each other, in that positive school climate enhances academic achievement thus decreasing school absenteeism (75).

CONCLUSION

To conclude, from the criminological perspective of social control theory school shootings can be considered as both the cause and the effect of disrupted school climate. In other words, especially for rampage and targeted school shootings' offenders are motivated to take revenge or show their power to the constitution or to the people in that specific constitution which have bullied them. So, disrupted attachment toward

school can cause violent behavior. In addition, this kind of violent behavior which terrorize whole of the school climate also negatively impact school climate in that students who were victimized are more likely to engage in delinquent behavior, drug use, and criminal behavior in adulthood.

Ethics

Ethics Committee Approval: Helsinki Declaration rules were followed to conduct this study and no ethical approval is need for this study.

Peer-review: Internally peer-reviewed.

Authorship Contributions

Concept: A.E., Design: A.E., Data Collection or Processing: A.E., E.I.Ö., Analysis or Interpretation: A.E., E.I.Ö., Literature Search: A.E., E.I.Ö., Writing: A.E., E.I.Ö.

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