### Relationship between Knowledge and Attitude with the Dangers of Bullying in High School Students

Sadya Bustomi<sup>1</sup>, Mukhlasin<sup>1</sup>, Prihayati<sup>1</sup>, Diah Nurul Qulbi<sup>1</sup>, Rizka Fitriani<sup>1</sup>, Jessica Edrea Valeska<sup>1</sup>

<sup>1</sup> Public Health Study Program, Universitas Faletehan, Indonesia

Correspondence should be addressed to: Sadya Bustomi <u>big7homsom@gmail.com</u>

#### Abstract:

Bullying is a common issue in school environments and can have severe negative impacts on students' mental, social, and academic well-being. This study examined the Relationship between Knowledge and Attitude with the Dangers of Bullying in High School Students. A quantitative cross-sectional approach was used, involving 60 eleventh-grade students selected through total sampling. Data were collected using questionnaires distributed before and after the health education intervention and analyzed using univariate and bivariate tests. The univariate results showed that most respondents had high levels of bullying behavior (71.7%), low knowledge (68.3%), and negative attitudes (51.7%). After the intervention, improvements were observed in both knowledge and attitudes. Bivariate analysis revealed a significant relationship between knowledge and bullying (p = 0.017) and between attitude and bullying (p = 0.033). Health education proved effective as a promotive and preventive strategy for fostering positive behavior and empathy among adolescents. Therefore, schools should integrate health education into student development programs to create a safe and violencefree learning environment. This study contributes to bullying prevention through a structured, evidence-based educational approach.

#### Keywords:

bullying, health education, knowledge, attitude, adolescent

DOI: https://doi.org/10.53713/htechj.v3i3.377 This work is licensed under CC BY-SA License.

#### INTRODUCTION

Bullying has emerged as a pervasive global public health issue, affecting millions of adolescents worldwide. Students who experience bullying will experience severe impacts ranging from psychological stress to suicide (Chen et al., 2023). In Indonesia, recent reports indicate that bullying remains prevalent in schools, exacerbated by weak mental resilience among adolescents. This phenomenon underscores the urgent need for evidence-based interventions to mitigate its impact on youth well-being (Putra & Dendup, 2020).

Bullying is defined as repeated, intentional, aggressive behavior characterized by a power imbalance between perpetrators and victims (Chang, 2021). It manifests in multiple forms: physical bullying (e.g., hitting, damaging property), verbal bullying (e.g., name-calling, spreading rumors), and psychological bullying (e.g., social exclusion, cyberbullying) (Han et al., 2025; Wuryaningsih et al., 2020). These behaviors violate individual rights and foster hostile environments, particularly in educational settings where peer dynamics are critical to social development (Andrews et al., 2023; Fitria et al., 2023).

The repercussions of bullying are profound and multifaceted. Victims often experience anxiety, depression, and academic decline, while perpetrators face increased risks of antisocial behavior and

Article info:

Submitted: 01-06-2025 Revised: 18-06-2025 Accepted: 19-06-2025

criminality later in life (Ariani et al., 2025). Alarmingly, bullying has been linked to suicidal ideation, particularly among adolescents with limited coping mechanisms (Hasan et al., 2021). Bullied students contemplated self-harm due to feelings of hopelessness, highlighting the life-threatening consequences of unchecked aggression (Ali et al., 2024).

Addressing bullying requires interventions targeting knowledge and attitudes (Dawes et al., 2023). Heightened awareness of bullying's dangers correlates with reduced engagement in such behaviors (Varela et al., 2022). Knowledge empowers individuals to recognize harmful actions, fostering empathy and discouraging participation. For instance, students who understand the psychological trauma caused by bullying are more likely to reject it as a social norm, aligning with the Health Belief Model's emphasis on perceived susceptibility and severity (Omar et al., 2024).

Attitudes—defined as learned predispositions to respond positively or negatively toward stimuli—play a pivotal role in shaping behavioral intentions (Johnson et al., 2022). Prosocial attitudes cultivated through education can dismantle tolerance for bullying by emphasizing equity and respect (Alhamuddin & Hamdani, 2024). Students with empathetic attitudes are less likely to victimize peers based on perceived weaknesses, reflecting the Transtheoretical Model's stages of behavioral change. Thus, modifying attitudes is critical for sustainable prevention (Mora et al., 2021).

Health education emerges as a strategic tool to combat bullying by equipping students with knowledge and reshaping attitudes (Amat et al., 2023; Kurniyawan et al., 2023). Structured programs, integrating interactive workshops and peer discussions, have demonstrated efficacy in improving awareness and fostering prosocial behaviors. A study reported reduced bullying incidents following a school-based health education intervention. Such initiatives align with the socioecological model, simultaneously addressing individual, interpersonal, and environmental factors (Debby et al., 2021; Kurniawan et al., 2024).

This study aims to investigate the relationship between health education interventions and high school student's knowledge and attitudes toward bullying in high school students. By bridging gaps in evidence, particularly in low- and middle-income countries, our findings inform scalable strategies to promote safe school environments. The results will contribute to global efforts to align educational policies with mental health promotion, ultimately reducing the burden of bullying-related harm.

#### METHOD

This study employed a cross-sectional design to investigate the relationship between health education interventions and high school students' knowledge and attitudes toward bullying. Data were collected simultaneously to capture immediate effects, focusing on observational analysis and structured surveys administered during the intervention period. The research was conducted at SMAN 4 Kota Serang, Indonesia, from February to April 2025, encompassing stages from proposal development to data collection, analysis, and final reporting. This timeframe allowed for the systematic implementation of the health education program and the subsequent evaluation of its impact.

The target population comprised 60 ninth-grade students enrolled at SMAN 4 Kota Serang in 2025. A total sampling technique was utilized, ensuring all students in the selected cohort participated as the study sample. This approach was chosen to maximize data accuracy given the manageable population size and to ensure a comprehensive representation of the group. Data collection involved pre- and post-intervention questionnaires assessing knowledge (e.g., understanding of bullying definitions and consequences) and attitudes (e.g., empathy toward victims, rejection of bullying norms). Descriptive and inferential statistical analyses were performed to evaluate changes in knowledge and attitude scores following the intervention.

Ethical clearance was obtained from the Public Health Study Program at Faletehan University prior to data collection. Informed consent was secured from participants, parents, and school authorities, emphasizing voluntary participation, confidentiality, and the right to withdraw. The study adhered to ethical guidelines for human research, ensuring minimal risk to participants and alignment with institutional review board protocols. All procedures were designed to maintain objectivity and integrity in reporting findings related to bullying prevention through health education.

#### RESULT

#### **Univariate Analysis**

Variable	f	(%)		
Danger of Bullying		. ,		
High	43	71.7		
Low	17	28.3		
Knowledge				
High	19	31.7		
Low	41	68.3		
Attitude				
High	29	48.3		
Low	31	51.7		

#### Table 1. Frequency Distribution of Respondents

The univariate analysis revealed that most respondents exhibited high levels of bullying behavior (71.7%), had low levels of knowledge (68.3%), and demonstrated low attitudes (51.7%).

#### **Bivariate Analysis**

Table 2. Relationship between Knowledge and Attitude with the Dangers of Bullying in Students

	Bullying			Total				
Variable	High		Low		i Ulai		p-value	PR (95%CI)
	n	%	n	%	n	%	-	
Knowledge								
High	18	94.7	1	5.3	19	100	0.017	1.554 (1.190-2.029)
Low	25	61.0	16	39.0	41	100		
Attitude								
High	25	86.2	4	13.8	29	100	0.033	1.485 (1.065-2.071)
Low	18	58.1	13	41.9	31	100		

The bivariate analysis showed a significant relationship between knowledge and bullying (p-value = 0.017), as well as between attitude and bullying (p-value = 0.033). These findings are consistent with those of Andriani (2022), who reported a relationship between attitude and bullying, with 49 individuals (57%) exhibiting such a pattern, and 44.7% demonstrating low levels of knowledge.

#### DISCUSSION

The findings of this study reveal a high prevalence of bullying behavior among respondents (71.7%), coupled with low levels of knowledge (68.3%) and unfavorable attitudes (51.7%) toward

bullying prevention. The significant relationships between knowledge, attitudes, and bullying behavior (p=0.017 and p=0.033, respectively) underscore the critical role of cognitive and affective factors in shaping student conduct. This suggests that interventions targeting knowledge gaps and attitudinal shifts could mitigate bullying in educational settings (Dawes et al., 2023).

The correlation between low knowledge and bullying behavior emphasizes the need for structured educational programs. Students with a limited understanding of bullying's consequences may lack awareness of its psychological and social impacts. Conversely, improved knowledge fosters empathy, as noted in the study's analysis, where informed students were less likely to exploit peers' vulnerabilities. This aligns with cognitive theories suggesting that information processing influences moral reasoning, enabling individuals to recognize harmful behaviors and adopt prosocial alternatives (Mazzone et al., 2021).

Attitudes also emerged as a significant predictor of bullying behavior. Negative attitudes, often rooted in rigid beliefs or social norms, may perpetuate discriminatory or aggressive actions. However, positive attitudes—shaped by empathy and acceptance of diversity—can deter bullying by promoting respect for individual differences. This finding supports the broader literature on social learning, which posits that attitudes are malleable through modeling and reinforcement. Schools must prioritize fostering inclusive environments to reshape these attitudes effectively (Wu & Jia, 2023).

Health education is pivotal in addressing bullying by integrating knowledge and attitudinal interventions. The analysis outlines that successful health education depends on instructor preparedness, resource availability, and contextual adaptability. For instance, educators who master content and employ interactive methods (e.g., role-playing, case studies) can enhance engagement and retention. Additionally, aligning programs with students' cultural and social contexts ensures relevance, increasing the likelihood of behavioral change (Celdrán-Navarro et al., 2023).

Despite its insights, this study has limitations. The cross-sectional design precludes causal inferences, and self-reported data may introduce bias. Future longitudinal studies should explore temporal relationships between knowledge, attitudes, and bullying behavior. Furthermore, intervention testing tailored health education modules could validate the practical efficacy of these findings. Schools and policymakers must collaborate to implement evidence-based programs, ensuring students acquire the knowledge and values to reject bullying and cultivate empathetic communities.

#### CONCLUSION

Univariate results show that most respondents have High bullying behavior, low knowledge, and low attitudes. Bivariate results conclude that there is a relationship between knowledge and attitudes toward bullying. Schools can conduct socialization or adolescent health education about the dangers of bullying in adolescents using interesting and continuous methods. Schools take an active approach in revealing bullying cases and following up on these cases. Parents can provide information about the dangers of bullying from an early age to reduce bullying behavior in adolescents.

#### REFERENCES

Alhamuddin & Hamdani. (2024). Harmony In the Classroom: Integrating the Values of Appreciation and Empathy Through Learning and The Anti-Bullying Campaign in Schools. *Tarlim: Jurnal Pendidikan Agama Islam*, 7(1), 1–13. https://doi.org/10.32528/tarlim.v7i1.1347

- Ali, N. S., Qadir, S., Alsoubai, A., De Choudhury, M., Razi, A., & Wisniewski, P. J. (2024, May). " I'm gonna KMS": From Imminent Risk to Youth Joking about Suicide and Self-Harm via Social Media. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems* (pp. 1-18). https://doi.org/10.1145/3613904.3642489
- Amat, S., Awang, M. M., & Ahmad, M. (2023). Exploring Teachers' Perspectives on Using a Spiritual Approach to Address Bullying Behavior Among Students: A Qualitative Study. *Business Management and Strategy*, 14(2), 179-207. https://doi.org/10.5296/bms.v14i2.21337
- Andrews, N. C., Cillessen, A. H., Craig, W., Dane, A. V., & Volk, A. A. (2023). Bullying and the Abuse of Power. *International journal of bullying prevention*, 5(3), 261-270. https://doi.org/10.1007/s42380-023-00170-0
- Ariani, T. A., Putri, A. R., Firdausi, F. A., & Aini, N. (2025). Global prevalence and psychological impact of bullying among children and adolescents: A meta-analysis. *Journal of Affective Disorders*, 385, 119446. https://doi.org/10.1016/j.jad.2025.119446
- Celdrán-Navarro, M. D. C., Leal-Costa, C., Suárez-Cortés, M., Molina-Rodríguez, A., & Jiménez-Ruiz, I. (2023). Nursing interventions against bullying: a systematic review. *International journal of environmental research and public health*, *20*(4), 2914. https://doi.org/10.3390/ijerph20042914
- Chang, V. (2021). Inconsistent definitions of bullying: A need to examine people's judgments and reasoning about bullying and cyberbullying. *Human Development*, 65(3), 144-159. https://doi.org/10.1159/000516838
- Chen, H., Guo, H., Chen, H., Cao, X., Liu, J., Chen, X., Tian, Y., Tang, H., Wang, X., & Zhou, J. (2023). Influence of academic stress and school bullying on self-harm behaviors among Chinese middle school students: The mediation effect of depression and anxiety. *Frontiers in Public Health*, *10*, 1049051. https://doi.org/10.3389/fpubh.2022.1049051
- Dawes, M., Gariton, C., Starrett, A., Irdam, G., & Irvin, M. J. (2023). Preservice Teachers' Knowledge and Attitudes Toward Bullying: A Systematic Review. *Review of Educational Research*. https://doi.org/10.3102/00346543221094081
- Debby., Xin Chua, J. Y., & Shorey, S. (2021). The Effectiveness of Educational Interventions on Traditional Bullying and Cyberbullying Among Adolescents: A Systematic Review and Meta-Analysis. *Trauma, Violence, & Abuse*. https://doi.org/10.1177/1524838020933867
- Fitria, Y., Firnanda, D., Kurniyawan, E. H., Dewi, E. I., & Ati, N. A. L. (2023). Description of Cyberbullying Behavior in Adolescents. *Babali Nursing Research*, *4*(2), 250-259. https://doi.org/10.37363/bnr.2023.42224
- Han, Y., Ye, Y., & Zhong, L. (2025). School bullying and mental health among adolescents: A narrative review. *Translational Pediatrics*, *14*(3), 463. https://doi.org/10.21037/tp-2024-512
- Hasan, M. M., Fatima, Y., Pandey, S., Tariqujjaman, M., Cleary, A., Baxter, J., & Mamun, A. A. (2021). Pathways linking bullying victimisation and suicidal behaviours among adolescents. *Psychiatry Research*, 302, 113992. https://doi.org/10.1016/j.psychres.2021.113992
- Johnson, B. T., Martinez-Berman, L., & Curley, C. M. (2022). Formation of attitudes: How people (wittingly or unwittingly) develop their viewpoints. In *Oxford Research Encyclopedia of Psychology*. https://doi.org/10.1093/acrefore/9780190236557.013.812
- Kurniawan, D. E., Alfid Tri, A., Retno, P., Anisah, A., M. Nur, K., Rosyidi Muhammad Nur, K., & Hadi Kurniyawan, E. (2024). Adolescents Plan to be Reproductive Healthy and Risk-Free of HIV Infection through Health Education based on Agricultural Perspective. *Journal of Community Empowerment for Multidisciplinary (JCEMTY)*, 2(2), 151–157. https://doi.org/10.53713/jcemty.v2i2.68
- Kurniyawan, E., Kartika, P. D. P., Siswoyo, Wantiyah, Murtaqib, Deviantony, F., & Fitria, Y. (2023). Perioperative Health Education Improves Coping Mechanisms in Preoperative Cataract Patients. *Health and Technology Journal (HTechJ)*, 1(1), 9–15. https://doi.org/10.53713/htechj.v1i1.2

- Mazzone, A., Yanagida, T., Camodeca, M., & Strohmeier, D. (2021). Information processing of social exclusion: Links with bullying, moral disengagement and guilt. *Journal of Applied Developmental Psychology*, 75, 101292. https://doi.org/10.1016/j.appdev.2021.101292
- Mora, J., Morales Rodríguez, F. M., & Martínez Ramón, J. P. (2021). Attitudes toward Transsexuality, Empathy, and Bullying in Young Population. *International Journal of Environmental Research and Public Health*, *19*(7), 3849. https://doi.org/10.3390/ijerph19073849
- Omar, N.M.A, Dandash, K., Ahmed Sobhy, S., Abd-elmoez Mohamed, K., & Elsayed Ameen, A. (2024). Behavioral Modification Theories and Bullying Prevention: A Review Article. *Egyptian Reviews for Medical and Health Sciences*, 2(2), 1-13. https://dx.doi.org/10.21608/ermhs.2024.298753.1007
- Putra, G. N. E., & Dendup, T. (2020). Health and behavioural outcomes of bullying victimisation among Indonesian adolescent students: findings from the 2015 Global School-based Student Health Survey. *Psychology, Health & Medicine*, 27(3), 513–527. https://doi.org/10.1080/13548506.2020.1826546
- Varela, J. J., Muñoz, G. J., Reschly, A., & Melipillán, R. (2022). Bullying Behavior and School Bonding for Predicting Student Engagement Among Chilean Adolescents. *Journal of School Violence*, 21(3), 327–341. https://doi.org/10.1080/15388220.2022.2098501
- Wu, Q., & Jia, F. (2023). Empowering Students against Ethnic Bullying: Review and Recommendations of Innovative School Programs. *Children*, *10*(10), 1632. https://doi.org/10.3390/children10101632
- Wuryanningsih, E. W., Kurniyawan, E. H., & Aisyah, E. C. (2020). Correlation Between Emotional Peer Support and Cyberbullying Behaviour in Senior High School Students. *Jurnal Ners*, 14(2), 205– 209. https://doi.org/10.20473/jn.v14i2.13726

HTechJ