90

The Relationship between Mental Health Literacy and Adolescent Resilience in Crime Prone Areas in Indonesia

ABSTRACT

Background and Objectives: Living in areas with high crime rates leads adolescents to experience mental health issues and potentially become involved in criminal activities. Mental health literacy (MHL) involves knowledge about identifying, managing, and seeking help for maintaining mental well-being. Resilience is the ability to adapt and withstand pressures, influenced partly by the environment. This study examines the relationship between mental health literacy and resilience among adolescents (10-19 years old) residing in crime-prone areas in Indonesia. Materials and Methods: This research employs a quantitative approach with a

cross-sectional design involving a sample of 365 respondents selected through proportionate stratified random sampling. Research instruments, including the MHKQ for mental health literacy and CD-RISC for resilience, are distributed using paper-based questionnaires. The analysis is conducted using Spearman's rho.

Results: The results showed that respondents' average MHL and resilience scores were 10.66±2.23 and 84.60±16.12, respectively. The results showed that adolescents exhibit low mental health literacy but high resilience. There was a significant positive correlation between mental health literacy and resilience (P < 0.001, r = 0.492) with a moderate correlation.

Conclusion: This study highlights the importance of mental health literacy in raising awareness and helping adolescents build resilience to withstand negative peer influences. This study can serve as a benchmark and inform efforts to enhance mental health literacy and resilience among adolescents in schools and communities in crime-prone areas.

Paper Type: Research Article

Keywords: Adolescents; Crime; Mental Health Literacy; Resilience.

Citation: Aulia Ramadhani W, Ayu Erika K, Fitriani N. The Relationship between Mental Health Literacy and Adolescent Resilience in Crime Prone Areas in Indonesia. *Journal of Health Literacy*. Winter 2025; 10(1): 90-99.

Wafiq Aulia Ramadhani Faculty of Nursing, Hasanuddin University. Indonesia. Kadek Ayu Erika * Department of Pediatric Nursing,

Faculty of Nursing, Hasanuddin University. Indonesia. (Corresponding author): kadek20_uh@yahoo.com Nurlaila Fitriani

Nullalla Fillialli

Department of Mental Health Nursing, Faculty of Nursing, Hasanuddin University. Indonesia. Received: 19 July 2024 Accepted: 23 November 2024 Doi:10.22038/jhl.2024.80746.1590

91

Introduction

Adolescents are vulnerable to mental problems due to exposure to poverty, violence. negative family and friend relationships, and influences from vulnerable environments (1). One of the impacts is behavioral disorders that result in delinguency and even criminal behavior (2). Adolescents who behave criminally are often caused by behavioral problems, low selfcontrol, mental disorders, and low knowledge and understanding of mental health (3). understanding Mental health includes recognition, prevention, early help, and access to mental health services. Mental health literacy is a strategy to prevent mental problems, including criminal behavior (4, 5). Low mental health literacy and lack of early defenses in the face of pressures such as risky environments result in adolescents tending to get caught up in maladaptive behavior. Thus, adolescents need the ability to survive in these conditions—resilience is an adaptive coping defense in the face of pressure. Poor resilience can lead to drug or alcohol abuse, mental health problems, and self-harm as maladaptive mechanisms to avoid problems (6). Several factors that can influence resilience include cognitive function and knowledge, locus of control, self-concept, family factors, community factors, and risk factors (such as pressure or stressors) (7). A lack of understanding about mental health can negatively affect the quality of life for adolescents, leading to behavioral problems, such as maladaptive behaviors that can harm them. Resilience is essential as an adaptive coping mechanism when facing challenges and problems in life. A person with good knowledge or literacy about mental health is more likely to be resilient by using their skills to handle different situations and find ways to adapt (8). Therefore, when knowledge of mental health is limited, it becomes harder for adolescents to develop resilience.

The National Commission on Child Protection noted that in 2015, juvenile crimes reached 2,620 cases (9). Then it increased by 10.7% in 2018-2021 (10). South Sulawesi ranked 4th in Indonesia in 2021 with 14,636 criminal cases (11). Takalar Regency, located in South Sulawesi, Indonesia, is one of the areas with a high crime rate and is categorized as a relatively vulnerable area (12). A survey conducted in 2015 found that crime in North Galesong District ranked 2nd in Takalar Regency. Based on the results of interviews with the North Galesong Police, there were 207 cases of crime during 2022-2023, and it became the year with the highest number of cases. Criminal cases that occur in North Galesong District include assault, group fights, vandalism, theft, drug abuse, robbery, bow-and-arrow attacks, and alcohol-related incidents. Most of these cases, with involved adolescents as victims and offenders, totaled 136 cases. Persecution and beatings were the most dominant cases, with the victims and perpetrators involved being teenagers. Living in an area with high crime is a factor that causes someone with mental health problems to behave violently and even criminally.

Adolescent mental health literacy and its impact on behavior and social resilience show that during and after the pandemic, adolescents had low mental health literacy (13). Mental health literacy and adolescent resilience have a role for adolescents in crime-prone areas. However, prior research has not examined the relationship between mental health literacy and adolescent resilience, especially in the context of crime areas, especially in North Galesong, which is included in crime-prone areas. The study aimed to determine the relationship between mental health literacy and adolescent resilience in crime-prone areas in Indonesia.

Materials and Methods Population and Sample

This quantitative study, with a cross-sectional design, was conducted at junior and senior high schools in North Galesong District, Takalar Regency, Indonesia, from January 2024. The study population was adolescents living in the North Galesong District, totaling 4171 adolescents. The sample was determined using the Slovin formula and using an error tolerance of 5%. The total sample size was 365 adolescents with inclusion criteria aged 10-19 years and willing to participate as a respondent. The exclusion criteria are living out of the Galesong Utara District, Takalar Regency, South Sulawesi Province, Indonesia, and having physical limitations such as blindness, muteness, or deafness. The sample determination using proportionate stratified random sampling with the strata for this study were defined primarily based on the educational level, dividing the population into two main categories: junior high school and senior high school. Sub-subdivision within these categories was done by class level, and the students were divided into grades 1st, 2nd, and third. Further, to determine the sample in the study from each school class, simple random sampling using a randomizer application.

Data Collection Tools

Data collection for the study used two instruments: the Mental Health Knowledge Questionnaire (MHKQ) and The Connor-Davidson Resilience Scale (CD-RISC).

The Mental Health Knowledge Questionnaire (MHKQ)

The Mental Health Knowledge Questionnaire (MHKQ) from Wang 2013 and the Indonesian version by Guntur Alfianto in 2023 with validity and reliability tests (14). This questionnaire can be used to measure mental health literacy in adolescents. This questionnaire consists of 20 items with only 2 answer options: "Yes or No". Seven items (2, 4, 6, 9, 10, 13, 14) are unfavorable; namely, the answer "no" will be valued at 1. While 13 items (1,3,5,7,8,11,12,15,16,17,18,19 and 20) are favorable, the answer "Yes" will be given a value of 1. The MHKQ instrument has a Cronbach's alpha value of 0.912. The mental health literacy assessment has a maximum score of 20 and a minimum score of 0. The scores are categorized based on the mean value of the respondents in the study.

The Connor-Davidson Resilience Scale (CD-RISC)

The Connor-Davidson Resilience Scale (CD-RISC) instrument was developed by Connor and Davidson in 2003. This instrument is used to measure the level of resilience of adolescents. Wahyudi developed the Indonesian version of CD-RISC in 2020 (15). This measuring instrument contains 25 items with a scale of 1-5 consisting of five answer choices (Strongly Unsuitable = 1; Unsuitable = 2; Neutral = 3; Suitable = 4; Very Suitable = 5). This scale has been tested for validity and reliability with a Cronbach alpha value of 0.90. The resilience assessment has a

maximum score of 125 and a minimum score of 25. The scores are categorized based on the mean value of the respondents in the study.

Data Analysis

Data collection was conducted offline in schools using paper-based questionnaires. Data analysis used descriptive univariate analysis for respondent demographic data and bivariate analysis using Spearman rho tests (for correlating categoric variables with abnormal data distribution) because the data distributions were abnormal. The data was analyzed using the SPSS version 26 application.

Results

Based on Table 1, the majority of respondents were female (67.7%), the majority of respondents were aged 13-15 years (middle adolescence) (48.2%), and senior high school level (56.4%). Respondents with the highest parental marital status were married (90.4%), with the majority of parental income per month < Rp. 3,384,876 (79.2%), and most lived with both parents (88.5%), with the most extended period of residence in the North Galesong Sub-district being >10 years (87.9%). Respondents who had friends who had been involved in violence or criminality were 51.8%, and 48.2% stated that they had not.

The average adolescent mental health literacy score is 10.66 (SD = 2.23), the lowest score is 4, and the highest score is 17, with a median of 10.00. While the average value of adolescent resilience is 84.60 (SD = 16.12), the lowest value is 38, the highest value is 117, and the median is 88.00. The mental health literacy confidence interval ranges (95% CI) from 10.43 to 10.89, while the

resilience variable ranges from 82.94 to 86.26. The data on mental health literacy and resilience variables are categorized based on the mean scores of respondents.

Based on Table 2, Adolescents with higher mental health literacy and resilience tend to be older (late adolescence). Females and senior high school students show higher levels of mental health literacy and resilience. Adolescents from married households and those with a monthly family income above the specified threshold generally exhibit greater resilience. Those living with both parents and not involved in friendships with individuals engaged in crime display higher resilience. More extended residence in North Galesong is also associated with higher resilience.

Table 3 shows that more respondents have low mental health literacy (51.2%) and more have high resilience (58.9%). The results of the Spearman Rho test obtained a p-value <0.001, so it was concluded that there was a relationship between mental health literacy and adolescent resilience in the North Galesong District. The correlation coefficient value r = 0.492, meaning a moderate correlation exists. The direction of the correlation between mental health literacy and resilience is positive (+), meaning that the correlation is in the same direction: the higher the mental health literacy, the higher the resilience.

Discussion

Mental Health Literacy of Adolescents

Mental health literacy in adolescents is categorized as low literacy. These results are in line with research on Nigerian adolescents, and research on Vietnamese adolescents found low adolescent mental health literacy (16, 17).

Mental health literacy in the general public and adolescents is still low and moderate (18). Efforts to improve mental health literacy in the community, including adolescents, are rare and poorly evaluated (19). At the same time, school-based educational interventions may improve MHL in adolescents (20). Mental health literacy was higher in older population groups (21).

This study also showed that adolescents at the senior high school level had higher health literacy than adolescents at the junior high school level. Mental health literacy was affected by higher grades (22).

Characteristics Respondents Frequency (f) Percentage (%) Age 14.96 ± 1.57 2.33 ± 0.64 10.12 years old (early adolescence) 34 9.3 13-15 years old (middle adolescence) 176 48.2 16.19 years old (late adolescence) 155 42.5 16-19 years old (late adolescence) 155 42.5 67.1 Gender 1.67 ± 0.47 7 Male 120 32.9 Female 245 67.1 School Level 1.55 ± 0.49 33.6 Junior High School 206 56.4 Married 330 90.4 Divorced 15 4.1 Widowed 20 5.5 Parents' Monthly Income 1.2 ± 0.40 43.6 King Arrangement 1.1 ± 0.50 43.6 Both parents 319 87.4 One parent 26 7.1 Other family 20 5.5 Have Friends Involved in Crime/Violence 1.4 ± 0.50 Yes 189 51.8 </th <th></th> <th colspan="4"></th>					
Age $14.96 \pm 1.57 \ge .33 \pm 0.64$ 10-12 years old (early adolescence) 34 9.3 13-15 years old (middle adolescence) 176 48.2 16-19 years old (late adolescence) 155 42.5 Gender 1.67 42.9 Male 120 32.9 Female 245 67.1 School Level 1.55 4.1 Junior High School 206 56.4 Marital Status of Parents 1.15 4.1 Married 330 90.4 Divorced 15 4.1 Widowed 20 5.5 Parents' Monthly Income 1.12 -0.43 Living Arrangement 1.18 -0.50 Living Arrangement 1.18 -0.5 Have Friends Involved in Crime/Violence -1.43 -0.50 Yes 189 51.8 -0.50 Have Friends Involved in Crime/Violence -0.52 -0.50 -0.52 Have Friends Involved in Crime/Violence -0.52 -5.6	Characteristics Respondents	M ± SD			
10-12 years old (early adolescence) 34 9.3 13-15 years old (middle adolescence) 176 48.2 16-19 years old (late adolescence) 155 42.5 Gender 1.67 ± 0.47 48.2 Male 120 32.9 Female 245 67.1 School Level 1.55 ± 0.49 43.6 Junior High School 206 56.4 Married 330 90.4 Divorced 15 4.1 Widowed 20 5.5 Parents' Monthly Income 1.21 ± 0.40 Rp. 3.384.876 289 79.2 ≥Rp. 3.384.876 26 7.1 One parent 26 7.1 Other family 20 5.5 Have Friends Involved in Crime/Violence 1.48 ± 0.50 Yes <td></td> <td colspan="4"></td>					
13-15 years old (middle adolescence) 176 48.2 16-19 years old (late adolescence) 155 42.5 Gender 1.67 ± 0.47 Male 120 32.9 Female 245 67.1 School Level 1.55 43.6 Junior High School 206 56.4 Marital Status of Parents 1.15 ± 0.48 Married 330 90.4 Divorced 15 4.1 Widowed 20 5.5 Parents' Monthly Income 1.21 ± 0.40 < Rp. 3.384.876					
16-19 years old (late adolescence) 155 42.5 Gender $1.6 + \pm 0.47$ Male 120 32.9 Female 245 67.1 School Level 1.59 43.6 Junior High School 206 56.4 Senior High School 206 56.4 Marital Status of Parents 1.15 ± 0.47 4.1 Divorced 15 4.1 Divorced 15 4.1 Widowed 20 5.5 Parents' Monthly Income 1.2 ± 0.40 2.8 <	,	-			
Gender 1.67 ± 0.47 Male 120 32.9 Female 245 67.1 School Level 1.5 ± 0.49 Junior High School 159 43.6 Senior High School 206 56.4 Marital Status of Parents 1.15 ± 0.48 Married 300 90.4 Divorced 15 4.1 Widowed 200 5.5 Parents' Monthly Income 1.2 ± 0.40 20.8 Living Arrangement 1.12 ± 0.40 32.8 Living Arrangement 1.15 ± 0.43 300 One parents 319 87.4 One parent 26 7.1 Other family 20 5.5 Have Friends Involved in Crime/Violence 1.4 ± 0.50 Yes 189 51.8 No 176 48.2 Length of Residence in North Galesong $13.68 \pm 3.5 \pm 2.83 \pm 0.49$ S 25 6.8 >10 Years 25.6 <th< td=""><td> ,</td><td></td><td></td></th<>	,				
Male 120 32.9 Female 245 67.1 School Level 1.56 ± 0.49 Junior High School 206 56.4 Marital Status of Parents 1.15 ± 0.48 Marital Status of Parents 1.15 ± 0.48 Married 330 90.4 Divorced 15 4.1 Widowed 20 5.5 Parents' Monthly Income 1.21 ± 0.40 < Rp. 3.384.876					
Female24567.1School Level1.55 + 0.49Junior High School20656.4Senior High School20656.4Marital Status of Parents1.15 + 0.48Married33090.4Divorced154.1Widowed205.5Parents' Monthly Income1.21 ± 0.40 <rp. 3.384.876<="" td="">28979.2≥Rp. 3.384.8767620.8Living Arrangement1.13 ± 0.50Both parents31987.4One parent267.1Other family205.5Have Friends Involved in Crime/Violence1.442Length of Residence in North Galesong13.68 ± 3.52Schol Years195.2S-10 Years256.8>10 Years32187.9Mental Health Literacy10.52Low18751.2High17848.8Resilience84.52Low15041.1</rp.>					
School Level 1.56 ± 0.49 Junior High School 159 43.6 Senior High School 206 56.4 Marital Status of Parents 1.15 ± 0.48 Married 330 90.4 Divorced 15 4.1 Widowed 20 5.5 Parents' Monthly Income 1.21 ± 0.40 < Rp. 3.384.876					
Junior High School 159 43.6 Senior High School 206 56.4 Marital Status of Parents 1.1 ± 0.48 Married 330 90.4 Divorced 15 4.1 Widowed 20 5.5 Parents' Monthly Income 1.2 ± 0.40 <rp. 3.384.876<="" td=""> 289 79.2 \geq Rp. 3.384.876 289 79.2 \leq Rp. 3.384.876 289 79.2 \leq Rp. 3.384.876 289 79.2 \leq Rp. 3.384.876 26 7.1 O One parent 26 7.1 O One parent 26 7.1 O Other family 20 5.5 Have Friends Involved in Crime/Violence 1.4 ± 0.50 Yes 189 51.8 No 176 48.2</rp.>		_	-		
Senior High School 206 56.4 Marital Status of Parents 1.1 ± 0.48 Married 330 90.4 Divorced 15 4.1 Widowed 20 5.5 Parents' Monthly Income 1.2 ± 0.40 < Rp. 3.384.876					
Marital Status of Parents 1.15 ± 0.48 Married 330 90.4 Divorced 15 4.1 Widowed 20 5.5 Parents' Monthly Income 1.21 ± 0.40 < Rp. 3.384.876	J. J				
Married33090.4Divorced154.1Widowed205.5Parents' Monthly Income 1.21 ± 0.40 < Rp. 3.384.876					
Divorced154.1Widowed205.5Parents' Monthly Income $1.2 ext{0.40}$ < Rp. 3.384.876		1.15 ± 0.48			
Widowed205.5Parents' Monthly Income 1.2 ± 0.40 < Rp. 3.384.876					
Parents' Monthly Income 1.21 ± 0.40 < Rp. 3.384.876					
< Rp. 3.384.876	Widowed	20	5.5		
≥Rp. 3.384.8767620.8Living Arrangement 1.11 ± 0.50 Both parents31987.4One parent267.1Other family205.5Have Friends Involved in Crime/Violence 1.41 ± 0.50 Yes18951.8No17648.2Length of Residence in North Galesong $13.68 \pm 3.5 \ge 2.83 \pm 0.49$ S Years195.25-10 Years256.8>10 Years32187.9Mental Health Literacy $10.5 \le 2.33$ Low18751.2High17848.8Resilience 84.6 ± 16.12 Low15041.1	Parents' Monthly Income	1.21 ± 0.40			
Living Arrangement 1.1 ± 0.50 Both parents 319 87.4 One parent 26 7.1 Other family 20 5.5 Have Friends Involved in Crime/Violence 1.4 ± 0.50 Yes 189 51.8 No 176 48.2 Length of Residence in North Galesong $13.68 \pm 3.5 5 2.83 \pm 0.49$ < 5 Years 19 5.2 $5-10$ Years 25 6.8 >10 Years 321 87.9 Mental Health Literacy 10.6 ± 2.23 87.9 Low 187 51.2 High 178 48.8 Resilience $84.6 \cup \pm 16.12$ Low 150 41.1	< Rp. 3.384.876	289	79.2		
Both parents 319 87.4 One parent 26 7.1 Other family 20 5.5 Have Friends Involved in Crime/Violence 1.48 ± 0.50 Yes 189 51.8 No 176 48.2 Length of Residence in North Galesong $13.68 \pm 3.5 \pm 2.83 \pm 0.49$ < 5 Years	≥Rp. 3.384.876	76	20.8		
One parent Other family 26 7.1 Other family 20 5.5 Have Friends Involved in Crime/Violence 1.4 ± 0.50 Yes 189 51.8 No 176 48.2 Length of Residence in North Galesong $13.68 \pm 3.5 \pm 0.49$ 48.2 Start 19 5.2 S-10 Years 25 6.8 >10 Years 321 87.9 Mental Health Literacy 10.5 ± 2.23 10 Low 187 51.2 High 178 48.8 Resilience 84.6 ± 16.12 10	Living Arrangement	1.18 ± 0.50			
Other family 20 5.5 Have Friends Involved in Crime/Violence 1.4 ± 0.50 Yes 189 51.8 No 176 48.2 Length of Residence in North Galesong $13.68 \pm 3.5 \pm 0.49$ < 5 Years	Both parents	319	87.4		
Have Friends Involved in Crime/Violence 1.4 ± 0.50 Yes 189 51.8 No 176 48.2 Length of Residence in North Galesong 13.68 ± 3.55 2.83 ± 0.49 < 5 Years	One parent	26	7.1		
Yes18951.8No17648.2Length of Residence in North Galesong $13.68 \pm 3.5 \pm 0.49$ < 5 Years	Other family	20	5.5		
No 176 48.2 Length of Residence in North Galesong $13.68 \pm 3.5 \pm 0.49$ < 5 Years	Have Friends Involved in Crime/Violence	1.48 ± 0.50			
Length of Residence in North Galesong $13.68 \pm 3.55 2.83 \pm 0.49$ < 5 Years	Yes	189	51.8		
< 5 Years	No	176	48.2		
5-10 Years 25 6.8 >10 Years 321 87.9 Mental Health Literacy 10.6 ± 2.23 Low 187 51.2 High 178 48.8 Resilience 84.6 ± 16.12 Low 150 41.1	Length of Residence in North Galesong	13.68 ± 3.55 2.83 ± 0.49			
>10 Years 321 87.9 Mental Health Literacy 10.5 ± 2.23 10.6 ± 2.23 Low 187 51.2 High 178 48.8 Resilience 84.6 ± 16.12 Low 150 41.1	< 5 Years	19	5.2		
Mental Health Literacy 10.6 ± 2.23 Low 187 51.2 High 178 48.8 Resilience 84.60 ± 16.12 Low 150 41.1	5-10 Years	25	6.8		
Low 187 51.2 High 178 48.8 Resilience 84.60 ± 16.12 Low 150 41.1	>10 Years	321	87.9		
High 178 48.8 Resilience 84.60 ± 16.12 Low 150 41.1	Mental Health Literacy	10.66 ± 2.23			
Resilience 84.60 ± 16.12 Low 150 41.1	Low	187	51.2		
Low 150 41.1	High	178	48.8		
Low 150 41.1	Resilience	84.60 ± 16.12			
High 215 58.9	Low	150	41.1		
	High	215	58.9		

Table 1. Characteristics of Research Respondents (n=365)

able 2. The cross rabulation between M								
	Mental Hea	alth Literacy	Resil	ience				
Characteristics Respondents	Low	High	Low	High				
	f (%)	f (%)	f (%)	f (%)				
	Age							
10-12 years old (early adolescence)	21 (5.8)	13 (3.6)	20 (5.5)	14 (3.8)				
13-15 years old (middle adolescence)	100 (27.4)	76 (20.8)	79 (21.6)	97 (26.6)				
16-19 years old (late adolescence)	66 (18.1)	89 (24.4)	51 (14.0)	104 (28.5)				
	Gender							
Male	68 (18.6)	52 (14.2)	59 (16.2)	61 (16.7)				
Female	119 (32.6)	126 (34.5)	91 (24.9)	154 (42.2)				
	School Level							
Junior High School	95 (26.0)	64 (17.5)	71 (19.5)	88 (24.1)				
Senior High School	92 (25.2)	114 (31.2)	79 (21.6)	127 (34.8)				
Mari	tal Status of Pa	arents						
Married	167 (45.8)	163 (44.7)	10 (2.7)	196 (53.7)				
Divorced	11 (3.0)	4 (1.1)	11 (3.0)	5 (1.4)				
Widowed	9 (2.5)	11 (3.0)	6 (1.6)	14 (3.8)				
Parer	nts' Monthly In	icome						
< Rp. 3.384.876	151 (41.4)	138 (37.8)	123 (33.7)	166 (45.5)				
≥Rp. 3.384.876	36 (9.9)	40 (11.0)	27 (7.4)	49 (13.4)				
Liv	ing Arrangem	ent						
Both parents	158 (43.3)	161 (44.1)	129 (35.3)	190 (52.1)				
One parent	17 (4.7)	9 (2.5)	14 (3.8)	12 (3.3)				
Other family	12 (3.3)	8 (2.2)	7 (1.9)	13 (3.6)				
Have Friends Involved in Crime/Violence								
Yes	89 (24.4)	100 (27.4)	82 (22.5)	107 (29.3)				
No	98 (26.8)	78 (21.4)	68 (18.6)	108 (29.6)				
Length of Residence in North Galesong								
< 5 Years	13 (3.6)	6 (1.6)	13 (3.3)	7 (1.9)				
5-10 Years	12 (3.3)	13 (3.6)	8 (2.2)	17 (4.7)				
>10 Years	162 (44.4)	159 (43.6)	130 (35.6)	191 (52.3)				

Table 2. The Cross Tabulation between Mental Health Literacy and Resilience Adolescent (n=365)

Table 3. Relationship between Mental Health Literacy and Adolescent Resilience (n=365)

		Resilience		Resilience		tal			
Mental Health	High		igh Low Total		gh Lo [.]		TOLAI	p-value	r
Literacy	f	(%)	f	(%)	f	(%)			
High	149	40.8	29	7.9	178	48.8			
Low	66	18.1	121	33.2	187	51.2	<0.001	0,492	
Total	215	58.9	150	41.1	365	100			

Older adolescents can quickly gain an understanding related to mental health by accessing more information from social media or programs at school (23, 24), so older adolescents predominantly have better mental health literacy than younger adolescents. Adolescents with a residence period of more than 10 years had a higher level of mental health literacy in the low category. This study was conducted in rural areas, and it was found that the level of mental health literacy was in the low category. Living in rural The Relationship between Mental Health Literacy and Adolescent ...

areas is a demographic factor that challenges improving health literacy (25).

In the study, it was found that adolescents who had friends who had been involved in crime had more mental health literacy levels in the high category. Not always only negative influence relationships from peers, but positive influences can also be channeled from individuals to their peers, one of which is the dismissal of individual involvement in crime (26). In some cases, having a friend who has been involved in a crime can provide a different experience and perspective.

Resilience of adolescents

Adolescents mostly have resilience, which is in the high category. In this study, female adolescents had higher resilience than male adolescents. Similarly, research from Marta showed that adolescent resilience was in the high category (27). Female adolescents tend to resolve pressure by focusing on emotional coping and emotional impact, while men use logic and focus on problem-focused coping (28). Older adolescents have better psychological challenges and more experiences that help them develop coping skills.

Adolescents who have high resilience are more numerous than adolescents who have no friends who have been involved in crime. Resilience will be lower in adolescents with high risk. In addition, it was also found that adolescents with high resilience were found more in adolescents who lived more than 10 years in North Galesong. Adolescents will more easily adjust to conditions that have been faced for a long time by learning from these experiences. Relationship between Mental Health Literacy and Adolescent Resilience in Crime-Prone Areas

The results showed a relationship between mental health literacy and adolescent resilience in crime-prone areas. These results are in line with a study conducted on Chinese adolescents, which found a significant positive correlation between mental health literacy and resilience (29, 30). Adolescent resilience in crime-prone areas refers to the ability to withstand the pressures of a risky environment. Adequate mental health knowledge and skills provide more psychological resources to help them overcome challenges and maintain good mental health. Having mastered such knowledge and skills, adolescents are more likely to try different kinds of coping when facing psychological difficulties (31). Mental health literacy can influence resilience for the formation of psychological resilience in the face of various stresses (29). Mental health literacy can help reduce crime by addressing underlying mental problems that may contribute to criminal behavior (32, 33).

Mental health literacy and resilience theories assume that adolescents are negatively impacted by risky situations such bullying, crime, and neighborhood as violence. However, many adolescents gain positively from the application of resilience factors, including coping skills, social support, community resources, and access to accurate knowledge to deal with situational risks despite exposure to risky factors (34). Adolescents who have more knowledge about mental health will tend to seek help from trusted sources, thus increasing resilience in dealing with difficult situations.

Study Limitations and Strengths: A limitation of this study is that not all students fully understood the questions, requiring the

researcher to provide additional support and guidance to respondents. This added a layer of effort, necessitating extra time and energy from the researcher to ensure accurate responses and understanding throughout the process.

Conclusions

This study found a positive significant correlation between mental health literacy and adolescent resilience. Adolescents need to have good mental health literacy so that they can guickly build resilience in dealing with criminal environments. This research highlights the importance of mental health literacy in raising awareness and helping adolescents build resilience to withstand negative peer influences. There is a need for school-based programs such as health promotion and curriculum development to improve mental health literacy and adolescent resilience. Policies are needed to develop programs that provide easily accessible mental health services and other interventions. such as mental health promotion, which should be widely disseminated, especially in rural areas. Further research needed about is intervention studies to increase knowledge and awareness about mental health among adolescents.

Acknowledgments: Thanks to the junior high school, senior high school, and support from the Faculty of Nursing, Hasanuddin University.

Availability of data and materials: The authors confirm that the data generated or analyzed during this study are included in this published article

Conflicts of interests: There is no conflict of interest in the writing.

Consent for publication: All respondents gave consent for publication, provided that anonymity was ensured.

Ethical approval and consent to participate: The study was conducted according to the guidelines of the Declaration of Helsinki, and this research was approved by the Research Ethics Commission of the Faculty of Public Health, Hasanuddin University (No 252/UN4.14.1/TP.01.02/2024). All respondents and the school principal of each school gave consent for participation.

Funding: There is no source of funding for writing this article.

Author contributions: Study conception and design: Wafiq Aulia Ramadhani, Kadek Ayu Erika, Nurlaila Fitriani. Study supervision: Wafiq Aulia Ramadhani, Kadek Ayu Erika. Critical revisions for important intellectual contesnt: Wafiq Aulia Ramadhani, Kadek Ayu Erika, Nurlaila Fitriani. References: Nurlaila Fitriani.

References

- Lukoševičiūtė-Barauskienė J, Žemaitaitytė M, Šūmakarienė V, Šmigelskas K. Adolescent perception of mental health: It's not only about oneself, it's about others too. Children. 2023 Jun 25; 10(7):1109. https://doi.org/10.3390/children10071109 PMid: 37508606 PMCid: PMC10378269.
- 2- WHO. The mental health of adolescents [Internet]. 2021 [cited 2023 Sep 28]. Available from: https://www. who.int/news-room/fact-sheets/detail/adolescentmental-health.
- 3- Stenbacka M, Moberg T, Jokinen J. Adolescent criminality: Multiple adverse health outcomes and mortality pattern in Swedish men. BMC Public Health. 2019 Dec 11; 19(1):400. https://doi.org/10.1186/ s12889-019-6662-z PMid: 30975117 PMCid: PMC6460509.
- 4- Public Safety Canada. Crime prevention : Youth mental health, mental illness & crime [Internet]. 2017 [cited 2023 Nov 17]. Available from: https://www.publicsafety. gc.ca/cnt/rsrcs/pblctns/2017-h01-cp/index-en.aspx.
- 5- Deza M, Maclean JC, Solomon K. Local access to mental healthcare and crime. J Urban Econ. 2022 May; 129: 103410. https://doi.org/10.1016/j.jue.2021. 103410.

- 6- Kaligis F, Ismail RI, Wiguna T, Prasetyo S, Indriatmi W, Gunardi H, et al. Mental health problems and needs among transitional-age youth in Indonesia. Int J Environ Res Public Health. 2021 Apr 12; 18(8):4046. https://doi.org/10.3390/ijerph18084046 PMid: 33921344 PMCid: PMC8070090.
- 7- Perdana M. Hubungan kebersyukuran dan resiliensi pada narapidana di yogyakarta skripsi. [Yogyakarta]: Universitas Islam Indonesia; 2018 (Indonesia).
- Gainau BM. Perkembangan remaja dan problematikanya. Yogyakarta: Kanisiu; 2021.
- 9- Febriana DWM, Nurchayati. Kenakalan remaja (juvenile delinquency): Sebuah studi kasus pada remaja laki-laki yang terjerat kasus hukum. Jurnal Penelitian Psikologi. 2019; 06(01):1-9 (Indonesia).
- Badan Pusat Statistik. Statistik kriminal 2021 [Internet].
 2021 [cited 2023 Nov 17]. Available from: https://www.bps.go.id/publication/2021/12/15/8d1bc8 4d2055e99feed39986/statistik-kriminal-2021.html.
- 11- Setiyowati D, Dewi R, Sari N, Putra RFI. Statistik Kriminal 2022. Badan Pusat Statistik; 2022.
- 12- Sanusi W, Febriyanto S. Pengelompokan daerah rawan kriminalitas di sulawesi selatan menggunakan metode kmeans clustering. Journal of Mathematics, Computations, and Statistics (hal [Internet]. 2022; 5(1):12-9. Available from: http://www.ojs.unm.ac. id/jmathcos https://doi.org/10.35580/jmathcos.v 5i1.32719.
- 13- Zaimatus Septiana N, Istiqomah N, Sri Rahayu D. Literasi kesehatan mental: Dampak perilaku dan resiliensi sosial pada remaja. 2024; 11(1):81-91. Available from: http://ojs.unpkediri.ac.id/index.php/efektor.
- 14- Guntur Alfianto A, Tiara Karlina Putri L. The role of the animation film "kanca cilik" in increasing student's relation to mental health help-seeking behaviour. Jurnal Promkes: The Indonesian Journal of Health Promotion and Health Education. 2023; 11(1SP):72-9. https://doi.org/10.20473/jpk.V11.I1SI.2023.72-79.
- 15- Wahyudi A. Model rasch: Analisis skala resiliensi connordavidson versi bahasa Indonesia. Advice: Jurnal Bimbingan dan Konseling. 2020 Aug 15; 2(1):28. https://doi.org/10.32585/advice.v2i1.701.
- 16- Thai TT, Vu NLLT, Bui HHT. Mental health literacy and help-seeking preferences in high school students in Ho Chi Minh City, Vietnam. School Ment Health. 2020 Jun 7; 12(2):378-87. https://doi.org/10.1007/s12310-019-09358-6.
- 17- Aluh DO, Anyachebelu OC, Anosike C, Anizoba EL. Mental health literacy: What do Nigerian adolescents know about depression? Int J Ment Health Syst. 2018 Dec 16; 12(1):8. https://doi.org/10.1186/s13033-018-0186-2 PMid: 29467817 PMCid: PMC5815228.
- 18- Tay JL, Tay YF, Klainin-Yobas P. Mental health literacy levels. Arch Psychiatr Nurs. 2018 Oct; 32(5):757-63. https://doi.org/10.1016/j.apnu.2018.04.007 PMid: 30201205.
- Grace SB, Tandra AGK, Mary. Komunikasi efektif dalam meningkatkan literasi kesehatan mental. Jurnal

Komunikasi. 2020 Oct 31; 12(2):191-210 (Indonesia). https://doi.org/10.24912/jk.v12i2.5948.

- 20- Olyani S, Aval MG, Tehrani H, Mahdiadeh M. Schoolbased mental health literacy educational interventions in adolescents: A Systematic Review. Journal of Health Literacy. 2021 Sep; 6(2):69-77.
- 21- Miles R, Rabin L, Krishnan A, Grandoit E, Kloskowski K. Mental health literacy in a diverse sample of undergraduate students: Demographic, psychological, and academic correlates. BMC Public Health. 2020 Dec 13; 20(1):1699. https://doi.org/10.1186/s12889-020-09696-0 PMid: 33187487 PMCid: PMC7663887.
- 22- Yılmaz FK, ÜNKÜR P. Determination of mental health literacy, help-seeking behaviours and psychological distress levels of health science students. Journal of Health Literacy. 2023; 7(4):9-20.
- 23- Singh S, Zaki RA, Farid NDN, Kaur K. The determinants of mental health literacy among young adolescents in Malaysia. Int J Environ Res Public Health. 2022 Mar 9; 19(6):3242. https://doi.org/10.3390/ijerph19063242 PMid: 35328930 PMCid: PMC8953899.
- 24- Yu Y, Liu Z wei, Hu M, Liu X guang, Liu H ming, Yang JP, et al. Assessment of mental health literacy using a multifaceted measure among a Chinese rural population. BMJ Open. 2015 Oct 5;5(10):e009054. https://doi.org/10.1136/bmjopen-2015-009054 PMid: 26438139 PMCid: PMC4606438.
- 25- Todorovic N, Jovic-Vranes A, Djikanovic B, Pilipovic-Broceta N, Vasiljevic N, Racic M. Health literacy: Current status and challenges in the work of family doctors in bosnia and herzegovina. Int J Environ Res Public Health. 2019 Apr 12; 16(8):1324. https://doi.org/10.3390/ijerph 16081324 PMid: 31013799 PMCid: PMC6517870.
- 26- Rokven JJ, de Boer G, Tolsma J, Ruiter S. How friends' involvement in crime affects the risk of offending and victimization. Eur J Criminol. 2017 Nov 28; 14(6):697-719. https://doi.org/10.1177/1477370816684150 PMid: 29187805 PMCid: PMC5697564.
- Marta L, Kendhawati L, Moeliono MF. Adolescent resilience reviewed by gender. Jurnal Imiah Psikologi [Internet]. 2023; 11(3):371-6. Available from: http://dx.doi.org/10.30872/psikoborneo.v11i3.11577
- 28- Oktasari M, Wahyudin H. Uji konstruk dan pengukuran resiliensi berdasarkan jenis kelamin menggunakan analisis pemodelan rasch. ENLIGHTEN (Jurnal Bimbingan dan Konseling Islam). 2021 Jun 30; 4(1):42-53 (Indonesia). https://doi.org/10.32505/enlighten.v4i 1.2626.
- 29- Zhang X, Yue H, Hao X, Liu X, Bao H. Exploring the relationship between mental health literacy and psychological distress in adolescents: A moderated mediation model. Prev Med Rep. 2023 Jun; 33:102199. https://doi.org/10.1016/j.pmedr.2023.102199 PMid: 37223554 PMCid: PMC10201844.
- 30- Song L, Wang Y, Zhang Q, Yin J, Gan W, Shang S, et al. The mediating effect of resilience on mental health literacy and upbeat coping style among Chinese empty nesters: A cross-sectional study. Front Psychol. 2023 Jan

Journal of Health Literacy/ Volume 10 Issue 1 Winter 2025

98

25;14:1093446.https://doi.org/10.3389/fpsyg.2023.109 3446 PMid: 36760438 PMCid: PMC9905816.

- 31- Jia Y, Sun F, Liu C. Potential categories of college students' mental health literacy and their differences in mental resilience and coping styles. In: The 23rd Chinese Psychological Society, Hohhot, Inner Mongolia, China. 2021. p. 564-5.
- 32- Ghiasi N, Azhar Y, Singh J. Psychiatric illness and criminality [Internet]. StatPearls Publishing; 2023 [cited 2024 Mar 29]. Available from: https://www.ncbi. nlm.nih.gov/books/NBK537064/.
- 33- Jácome E. How better access to mental health care can reduce crime. Stanford; 2021. p. 1-6.
- 34- Riebschleger J, Grové C, Kelly K, Cavanaugh D. Developing and Initially Validating the Youth Mental Health Literacy Scale for Ages 11-14. Front Psychiatry. 2022 Jul 15; 13:817208. https://doi.org/10.3389/ fpsyt.2022.817208 PMid: 35911252 PMCid: PMC9334815.