

Behind the School Walls: The Unseen Battle with Loneliness and Suicidal Ideation among Southeast Asian Adolescent

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BACKGROUND Suicide Frequency Globally, suicide claims a life every 45 seconds, with loneliness contributing to approximately 10% of these cases. **The Most Common Place** A significant majority of suicides, approximately 77%, occur in low to middleincome countries, including those in Southeast Asia. Adolescents in this region face several challenges, such as socio-economic inequalities, aggressive and health-risk behavior, substance misuse, and poor mental health exacerbated by limited social connections leading to loneliness. A Lurking of Attempted Suicide It is of the utmost importance to address this complex, as feelings of 03 loneliness have been linked to suicidal ideation. If left untreated, it can result in a greater danger of suicidal behavior: suicide attempt. Noticeable Gap in Research Despite these challenges, research about the experience of Southeast Asia adolescents is scarce. Understanding the causes of loneliness and suicidal ideation in this demographic is crucial to creating effective interventions and support systems. **OBJECTIVES** This study aims to investigate the prevalence of and factors influencing feelings

of loneliness and suicidal ideation among adolescents in Southeast Asian

countries, and how these feelings correlate with suicide plans and attempts.

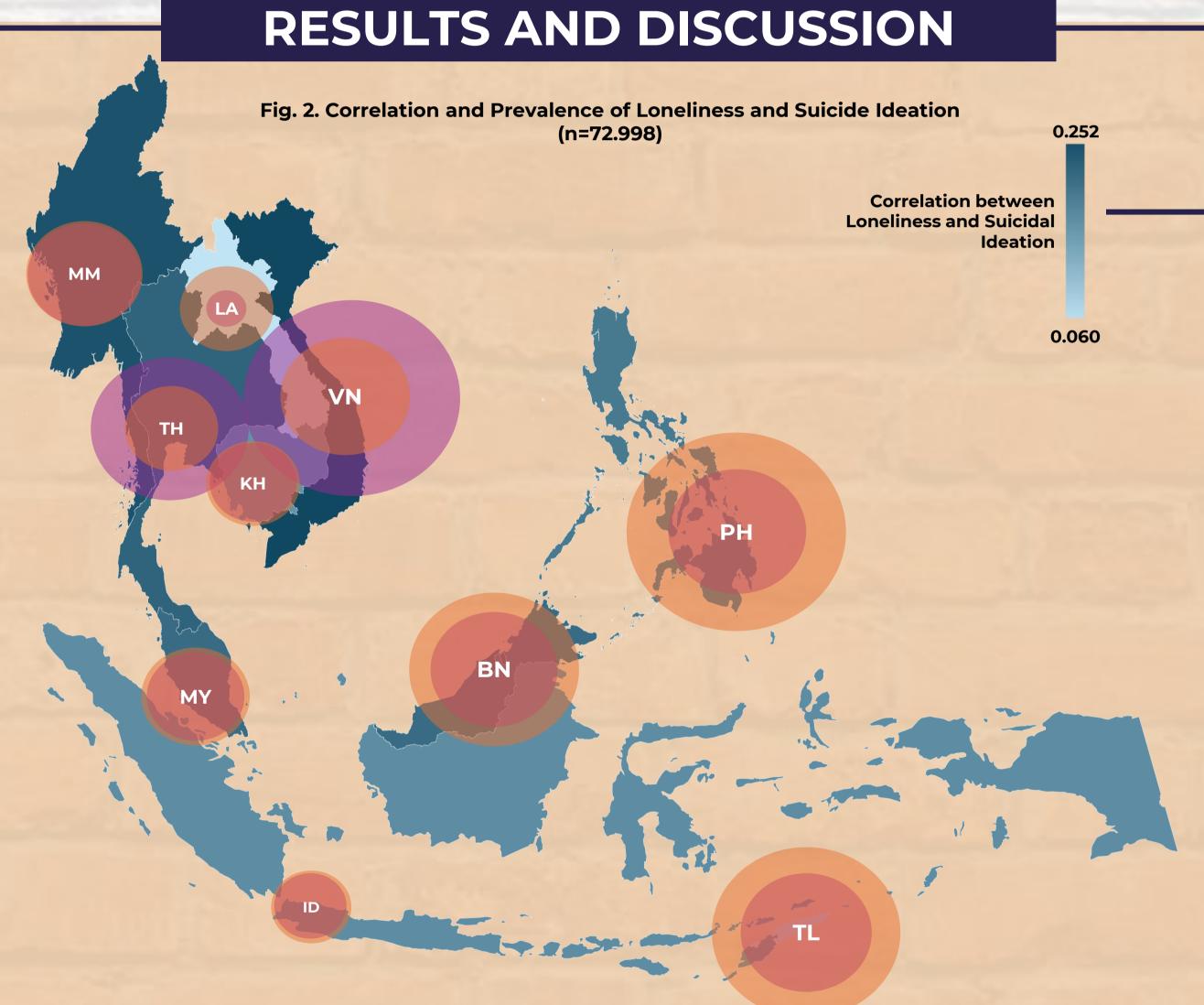
• Secondary analysis from World Health Organization's (WHO) Global School Health Survey (GSHS) within 2012-2016 from ten Southeast Asian countries. **Table 1. Countries Surveyed** Multivariate Descriptive Survey Year Response **Total Sample** Countries Analysis Rate 2,563 Brunei (BN) 2014 2,599 2,016 2015 11,142 10,899 Indonesia (ID) Cambodia (KH) 2013 3,717 3,355 Laos (LA) 2015 3,662 2,838 2,335 2,812 Myanmar (MM) 2016 4,800 2015 5,894 5,612 Thailand (TH) 2015 7,408 6,938 4,814 79% Timor Leste (TL) 2013 3,238 Vietnam (VN) 3,331 2012 89% 25,507 25,151 23,728 Malaysia (MY) Philipines (PH) 2015 8,761 8,407 6,895 57,962 72,999 Overall 74,969 Fig. 1. Samples Analysed Descriptive and Correlation analysis Multivariate for Loneliness and Total Sample analysis Suicide Ideation in each countries

Missing cases

for covariate

METHODS

This study reveals varying prevalence rates of loneliness and suicidal ideation among adolescents in Southeast Asian countries. Loneliness rates range from 16.5% in Phillipines to 6.1% in Indonesia, while suicidal ideation rates vary from 16.2% in Vietnam to 3.0% in Laos. Some countries have a higher prevalence of loneliness while others have a higher prevalence of suicide ideation. These disparities highlight significant mental health challenges influenced by cultural, social, and economic factors.



n=74,969

Missing cases

for Loneliness

and Suicide

Ideation

Loneliness

Suicide Ideation

Suicide Plan

Attempted Suicide

Loneliness and suicidal ideation in Southeast Asian teens vary. Vietnam (r=0.252), Brunei (0.216), and Myanmar (0.214) had the strongest correlation between loneliness and suicidal thoughts. Laos (r=0.061) and Timor Leste (r=0.060) have the lowest loneliness-suicidal ideation correlations. Different social support networks, mental health stigma, or other environmental factors may attenuate the effect of loneliness on suicide ideation.

Suicide

Plan

0.790**

Attempted

Suicide

1. Multivariate Logistic Regression: Analysis of the

relationship between loneliness, suicide ideation, and

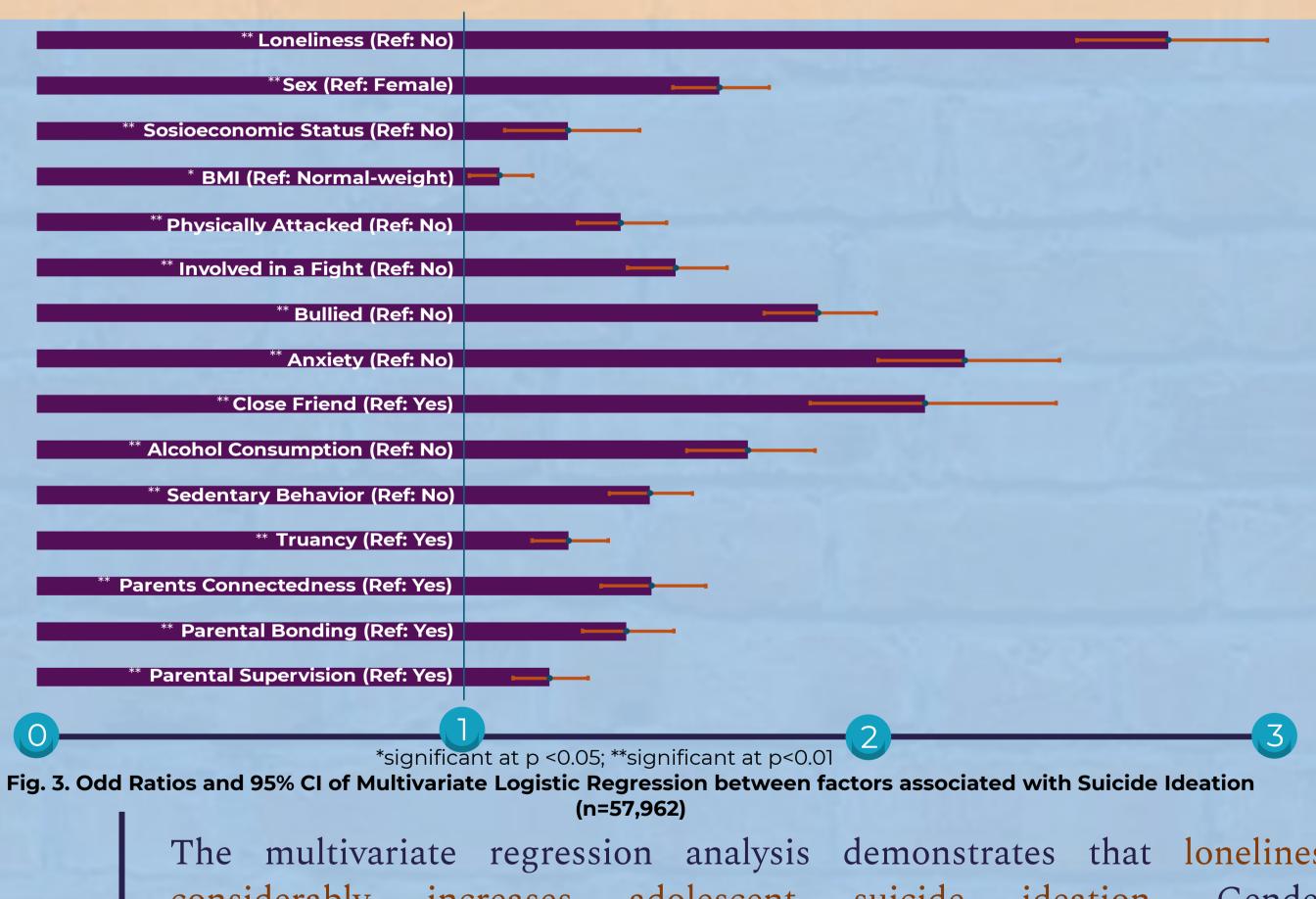
2. Spearman Correlation Analysis: Assess correlation

The significance was set at p < 0.05, and odds ratios (ORs) with 95% confidence intervals (CIs) were reported, with all analyses performed using STATA (version 13.0, Stata Corp., College Station, TX, USA).

between loneliness, suicidal ideation, suicidal plans,

covariates

and attempts.



Prevalence of

Prevalence of Suicide Ideation

**significant at p <0.01

Fig. 4. Spearman Correlation among Factors Shows a Graded Correlation from Loneliness to Attempted Suicide (n=57,962)

The correlation among mental health factors in adolescents reveals that loneliness correlates with suicidal ideation, suicide plans, and attempted suicide. Suicidal ideation shows a stronger correlation between suicide plans and attempted suicide, while suicide plans exhibit the strongest correlation with attempted suicide,

highlighting the urgency of early intervention to prevent the

Suicide

Ideation

0.546**

0.436**

Loneliness

0.172**

0.151**

0.143**

escalation of suicidal behaviors.

The multivariate regression analysis demonstrates that loneliness considerably increases adolescent suicide ideation. Gender, socioeconomic status, BMI, hostility, conflict, bullying, anxiety, social isolation, substance use, sedentary habits, and truancy all contribute. Parental connectivity, bonding, and supervision reduce teenage suicide ideation, whereas their absence increases chances ratios. These data demonstrate the complex interaction of individual, societal, and familial factors that should inform adolescent suicide prevention strategies.

CONCLUSION

Prevalence rates of loneliness and suicidal ideation among adolescents in Southeast Asia vary, highlighting significant mental health challenges influenced by cultural, social, and economic factors. Progressive correlations towards suicide attempts highlighted the importance of early interventions that address not only individual psychological distress but also broader societal factors such as stigma, social support systems, and family dynamics.

By addressing these multidimensional influences, policymakers and mental health professionals can develop more effective strategies to mitigate loneliness and prevent the escalation of suicidal behaviors among adolescents in Southeast Asia.



DATA AVAILABILITY STATEMENT

Datasets are available at https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/global-school-based-student-health-survey (accessed on August 1st 2024).

REFERENCES

World Health Organization. Global School-based Student Health Survey (GSHS) Data & Reporting. Available from: https://www.who.int/teams/noncommunicable-diseases/surveillance/data. Accessed 8 Mar 2021.. Accessed August 1st 2024.

- Shoib, Amanda TW, Saeed F, Ransing R, Bhandari SS, Armiya'u AY, Gurcan A, Chandradasa M. (2023). Association between Loneliness and Suicidal Behaviour: A Scoping Review. Turk Psikiyatri Dergisi 34:125-132
- McClelland H, Evans JJ, Nowland R, Ferguson E, O'Connor RC. (2020). Loneliness as a Predictor of Suicidal Ideation and Behavior: a Systematic Review and Meta. Analysis of Prospective Studies. I
- of Suicidal Ideation and Behavior: a Systematic Review and Meta-Analysis of Prospective Studies. J Affect Disord 274:880-896
- Peltzer K, Pengpid S. Loneliness and Health Risk Behaviors Among ASEAN Adolescents. Iran
 J Psychiatry Behav Sci. 2017;11(3):e7691.
- Hawkley LC, Cacioppo JT. Loneliness matters: a theoretical and empirical review of consequences and mechanisms. Ann Behav Med. 2010;40(2):218–27.
 Solmi M., Veronese N., Galvano D., Favaro A., Ostinelli E.G., Noventa V., Favaretto E., Tudor F.,
 - olmi M., Veronese N., Galvano D., Favaro A., Ostinelli E.G., Noventa V., Favaretto E., Tudor F., Finessi M., Il Shin J., et al. **Factors associated with loneliness: An umbrella review of observational studies**. J. Affect. Disord. 2020;271:131–138.