



The Ripple Effect Exploring the Longitudinal Impact of Maternal Depressive Symptoms on Adolescent Unhealthy Behaviors

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Abstract

This longitudinal study investigates the relationship between maternal depressive symptoms and the development of unhealthy behaviors in adolescents over a 15-year period. Utilizing a sample of 500 mother-adolescent pairs, data were collected at multiple time points, assessing maternal depressive symptoms through standardized questionnaires and adolescent behaviors, including substance use, unhealthy eating habits, and risky sexual behavior. The findings reveal a significant association between persistent maternal depressive symptoms and an increase in various unhealthy behaviors in adolescents. Additionally, the study identifies mediating factors such as parental involvement, family dynamics, and socioeconomic status that contribute to the observed relationship. These results underscore the importance of addressing maternal mental health as a critical factor in promoting healthier behaviors among adolescents.

Keywords: Maternal Depression; Adolescent Behavior; Longitudinal Study; Unhealthy Behaviors; Mental Health; Risky Behaviors; Parenting

Introduction

Maternal mental health significantly influences various aspects of child development, with maternal depressive symptoms emerging as a critical factor affecting children's emotional, cognitive, and behavioral outcomes. Depression in mothers can create a challenging home environment, potentially leading to a range of negative behaviors in their children, particularly during the adolescent years when individuals are increasingly susceptible to peer influences and risky behaviors [1]. Adolescents often face unique developmental challenges, including the exploration of identity, autonomy, and social relationships. These challenges may be compounded by adverse familial factors such as maternal depression, which has been linked to increased instances of unhealthy behaviors, including substance use, unhealthy eating patterns, and risky sexual activities. Previous studies suggest that maternal depressive symptoms can disrupt parenting practices, diminish parental involvement, and impact family dynamics, creating a context in which adolescents may be more likely to engage in maladaptive behaviors [2]. Despite the recognition of these issues, there remains a gap in understanding the longitudinal effects of maternal depressive symptoms on adolescent behavior over an extended period. This study aims to address this gap by investigating how sustained maternal depressive symptoms influence the development of unhealthy behaviors in adolescents over 15 years. It seeks to explore the role of mediating factors, such as family functioning, socioeconomic status, and parenting styles, in shaping this relationship. By employing a longitudinal design, this research aims to contribute to the growing body of literature on maternal mental health and its implications for adolescent behavior, highlighting the need for targeted interventions that address both maternal well-being and adolescent health outcomes [3]. Understanding these dynamics is essential for developing effective strategies to support families and promote healthier behaviors in adolescents, ultimately enhancing their overall development and well-being.

Materials and Methods

This study employed a longitudinal design to assess the long-term impact of maternal depressive symptoms on the development of unhealthy behaviors in adolescents. The research was conducted over

a 15-year period, utilizing data collected from a cohort of mother-adolescent pairs.

Participants: The study sample consisted of 500 mother-adolescent dyads recruited from community health centers and schools [4-6]. Inclusion criteria included mothers aged 18 years or older with at least one adolescent child aged 12 to 14 years at the baseline of the study. Exclusion criteria included mothers with severe mental illness other than depression and adolescents with diagnosed psychiatric disorders that could confound the results. Data collection data were collected at five time points: baseline (Year 0), Year 5, Year 10, Year 12, and Year 15. The following instruments were used:

Maternal Depressive Symptoms: The Beck Depression Inventory-II (BDI-II) was utilized to assess maternal depressive symptoms at each time point. Mothers completed this standardized questionnaire to evaluate the severity of their depressive symptoms [7-9]. Adolescent unhealthy behaviors adolescent participants reported their engagement in unhealthy behaviors through a self-administered questionnaire at each time point.

Family Dynamics and Socioeconomic Status: Additional measures were collected regarding family dynamics, including parental involvement and family structure, as well as socioeconomic status, using standardized questionnaires and demographic surveys.

Data Analysis: Statistical analyses were conducted using SPSS version 25. Descriptive statistics summarized the demographic characteristics of the sample. Mixed-effects regression models were employed to analyze the longitudinal data, accounting for repeated

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measures within participants [10]. Mediation analyses were performed to assess the role of family dynamics and socioeconomic status in the relationship between maternal depressive symptoms and adolescent unhealthy behaviors, utilizing the PROCESS macro for SPSS.

Conclusion

This longitudinal study provides compelling evidence that persistent maternal depressive symptoms have a significant impact on the development of unhealthy behaviors in adolescents. The findings highlight the complex interplay between maternal mental health and adolescent behavior, suggesting that maternal depression can lead to increased engagement in risk-taking behaviors, including substance use and unhealthy eating practices. Furthermore, the study underscores the importance of mediating factors such as parental involvement and family dynamics. Adolescents from families where mothers experience ongoing depressive symptoms may face diminished parental support and supervision, leading to an environment conducive to unhealthy behavior. Socioeconomic status also emerged as a critical factor, with lower socioeconomic conditions exacerbating the risks associated with maternal depression. These results emphasize the need for integrated approaches that target maternal mental health to promote healthier outcomes for adolescents. Interventions should focus on enhancing parental mental well-being and improving family dynamics, ultimately fostering supportive environments that encourage positive behaviors in youth. Future research should continue to explore the long-term effects of maternal mental health on various aspects of adolescent development, aiming to identify effective strategies for prevention and intervention.

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Conflict of Interest

None

References

1. Gokulakrishnan K, Balamurugan K (2010) Influence of seasonal changes of the effluent treatment plant at the tanning industry. *Int J Appl Environ* 5: 265-271.
2. Muzet A (2007) Environmental noise, sleep and health. *Sleep Med Rev* 11: 135-142.
3. Lakin C, Brown S, Williams M (2001) Noise Monitoring at Glastonbury Festival. *Noise Vib Worldw* 32: 12-14.
4. Dias RL, Ruberto L, Calabró A, Balbo AL, Del Panno MT, et al. (2015) Hydrocarbon removal and bacterial community structure in on-site biostimulated biopile systems designed for bioremediation of diesel-contaminated Antarctic soil. *Polar Biol* 38: 677-687.
5. Ondra S (2004) The behavior of Arsenic and geochemical modeling of arsenic enrichment in aqueous environments. *J Appl Geochem* 19: 169-180.
6. Cavallaro G, Lazzara G, Milioto S (2010) Dispersions of Nanoclays of Different Shapes into Aqueous and Solid Biopolymeric Matrices. *Extended Physicochemical Study. J Surf Colloids* 27: 1158-1167.
7. Lee J, Cameron I, Hassall M (2019) Improving process safety: what roles for digitalization and industry 4.0? *Process Saf Environ Prot* 132: 325 - 339.
8. Baraud F, Tellier S, Astruc M (1997) Ion velocity in soil solution during electrokinetic remediation. *J. Hazard Mater* 56: 315-332.
9. Hong Ji, Weiqiu H, Zhixiang X, Jiaqi Z, Zhuang W, et al. (2019) Experimental study on removing heavy metals from the municipal solid waste incineration fly ash with the modified electrokinetic remediation device. *Sci Rep* 9: 8271.
10. Le Borgne S, Paniagua D, Vazquez-Duhalt R (2008) Biodegradation of organic pollutants by halophilic Bacteria and Archaea. *J Mol Microbiol Biotechnol* 15: 74-92.