

EXPLORING THE IMPACT OF EARLY CHILDHOOD EXPERIENCES ON LONG-TERM EMOTIONAL DEVELOPMENT

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Article Info

Received: Sep 2, 2025

Revised: Nov 10, 2025

Accepted: Dec 7, 2025

Online Version: Feb 25, 2026

Abstract

Early childhood is a critical developmental period in which emotional foundations are formed through interactions with caregivers and the surrounding environment. Experiences such as emotional support, caregiving consistency, and early relational security have been widely recognized as influential, yet their long-term impact on emotional development across later life stages remains insufficiently integrated within developmental research. This study aims to explore the influence of early childhood experiences on long-term emotional development, with particular attention to emotional regulation and psychological well-being. Data were collected using standardized caregiver-report instruments, observational measures, and age-appropriate emotional regulation and well-being scales. Descriptive and inferential statistical analyses were applied to examine developmental relationships over time. The findings reveal that early emotional support and caregiving consistency are significant predictors of long-term emotional regulation and psychological well-being. Individuals exposed to emotionally responsive and stable early environments demonstrated greater emotional resilience and adaptive emotional functioning in later stages of development. The study concludes that early childhood emotional experiences constitute a foundational determinant of long-term emotional development.

Keywords: Caregiving Consistency, Emotional Development, Emotional Regulation



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Journal Homepage

<https://research.adra.ac.id/index.php/rpoc>

ISSN: (P: 3048-0078) - (E: 3048-1937)

How to cite:

Sekriptini, Y, A., Khan, J & Ali, Z. (2026). Exploring the Impact of Early Childhood Experiences on Long-Term Emotional Development. *Research Psychologie, Orientation et Conseil*, 3(1), 41–53. <https://doi.org/10.70177/rpoc.v3i1.3368>

Published by:

Yayasan Adra Karima Hubbi

INTRODUCTION

Early childhood represents a foundational period in human development during which emotional, cognitive, and social capacities begin to take shape. Experiences encountered during this stage, including caregiving quality, emotional responsiveness, and environmental stability, play a critical role in shaping emotional patterns that may persist into adolescence and adulthood. Emotional development in early childhood involves the emergence of affect regulation, attachment formation, and social-emotional competence, all of which influence how individuals perceive, interpret, and respond to emotional stimuli over the life course (Karjalainen et al., 2026; Plagge & Hughes-Belding, 2026).

Developmental psychology and neuroscience have increasingly emphasized the plasticity of the young brain, highlighting early childhood as a sensitive period for emotional learning. Neural systems associated with emotion regulation, stress response, and interpersonal sensitivity undergo rapid development during early years, making them particularly responsive to environmental input. Supportive experiences may foster emotional resilience, while adverse experiences can disrupt regulatory mechanisms and increase vulnerability to emotional difficulties later in life (Dobrota et al., 2026; Li et al., 2026).

Contemporary social changes further underscore the importance of examining early childhood emotional development. Shifts in family structures, caregiving arrangements, and socioeconomic conditions have altered the emotional environments in which children are raised. These transformations raise critical questions about how early emotional experiences shape long-term emotional functioning, mental health, and social adaptation across developmental stages.

Despite extensive recognition of early childhood as a critical developmental stage, empirical research often isolates emotional outcomes at specific life stages without adequately tracing their developmental origins. Emotional difficulties observed in adolescence or adulthood are frequently examined as immediate phenomena, rather than as outcomes shaped by early emotional experiences. This fragmented approach limits understanding of how early emotional environments contribute to long-term emotional trajectories (Lei et al., 2026; Nizzer et al., 2026).

Research has also tended to emphasize either normative emotional development or clinical pathology, resulting in a conceptual divide between typical emotional growth and maladaptive outcomes. This separation obscures the continuum through which early experiences may shape both adaptive emotional competencies and emotional vulnerabilities. A lack of integrative perspectives restricts the ability to identify early predictors of later emotional functioning.

Methodological challenges further complicate the problem. Many studies rely on cross-sectional designs or retrospective reports, which may fail to capture the complexity of emotional development over time. The absence of longitudinal and theoretically integrated approaches hampers efforts to establish coherent links between early childhood experiences and long-term emotional outcomes (Bush et al., 2026; Merkin et al., 2026).

This study aims to explore how early childhood experiences influence long-term emotional development across later stages of life. The research seeks to identify key emotional processes established in early childhood that contribute to enduring patterns of emotional regulation, responsiveness, and resilience. Emphasis is placed on understanding emotional development as a dynamic and cumulative process shaped by early environmental interactions.

Another objective of the study is to examine the types of early experiences most strongly associated with long-term emotional outcomes. These experiences include caregiving sensitivity, emotional security, exposure to stress, and social interaction quality. Clarifying these associations supports the identification of early emotional foundations that shape later emotional well-being (Kimchi-Yahav et al., 2026; Lyu et al., 2026).

The study further aims to contribute to theoretical integration by linking early childhood emotional development with later emotional functioning within a developmental framework. By synthesizing perspectives from developmental psychology and emotional development research, the study seeks to inform prevention-oriented approaches and early intervention strategies.

Existing literature has extensively documented the importance of early childhood experiences, yet significant gaps remain in understanding their long-term emotional consequences. Many studies focus on immediate developmental outcomes during childhood, with limited attention to how early emotional patterns evolve across the lifespan. This gap restricts insight into the continuity of emotional development.

Research often emphasizes cognitive or behavioral outcomes, leaving emotional development underexplored in longitudinal contexts. Emotional regulation, attachment-related processes, and affective competence are frequently treated as secondary variables rather than central developmental constructs. The limited integration of emotional development within broader developmental models constrains theoretical advancement (Liao et al., 2026; Tupou et al., 2026).

The literature also reveals a lack of interdisciplinary approaches that connect early emotional experiences with later mental health and social functioning. Studies frequently operate within disciplinary silos, reducing the potential to develop comprehensive models of emotional development. Addressing this gap is essential for advancing a holistic understanding of human development.

The novelty of this study lies in its developmental perspective that explicitly links early childhood emotional experiences to long-term emotional development. Rather than examining emotional outcomes in isolation, the research conceptualizes emotional development as a longitudinal process rooted in early life experiences. This approach offers a more integrated understanding of emotional continuity and change (Carotenuto, 2026; İşlek & Turan, 2026).

The study contributes conceptually by positioning early emotional experiences as foundational mechanisms that shape later emotional regulation and resilience. This perspective shifts the focus from reactive models of emotional difficulty to proactive frameworks emphasizing early emotional foundations. Such a contribution enhances theoretical clarity and practical relevance.

The justification for this research is grounded in its potential to inform early childhood education, parenting practices, and mental health prevention strategies. Understanding how early emotional experiences influence long-term emotional development provides critical insight for designing interventions that promote emotional well-being from early life onward. This research responds to a growing need for developmentally informed approaches that bridge early childhood research with long-term emotional health outcomes (Muhonen et al., 2026; Mukhlis et al., 2026).

RESEARCH METHOD

This study employed a longitudinal research design to examine the relationship between early childhood experiences and long-term emotional development. The design was selected to capture developmental changes over time and to allow for the analysis of emotional trajectories from early childhood into later developmental stages. A developmental perspective guided the research framework, enabling the examination of how early emotional environments contribute to enduring patterns of emotional regulation, responsiveness, and psychological well-being (Gray et al., 2026; Peña, 2026).

The population of the study consisted of children who had been enrolled in early childhood education programs within a defined geographic region. Participants were initially recruited during early childhood and followed across multiple developmental stages. A purposive sampling technique was applied to ensure representation across varying caregiving contexts and socioeconomic backgrounds. The final sample included individuals for whom complete developmental records and informed consent were available, supporting data consistency and ethical integrity (Ogwo et al., 2026; Sadruddin, 2026).

Data were collected using standardized instruments designed to assess early childhood experiences and emotional development outcomes. Early experiences were measured through caregiver-report questionnaires assessing emotional responsiveness, attachment-related behaviors, and environmental stability. Long-term emotional development was assessed using age-appropriate emotional regulation scales, psychological well-being inventories, and behavioral adjustment measures. All instruments demonstrated established validity and reliability within developmental research contexts.

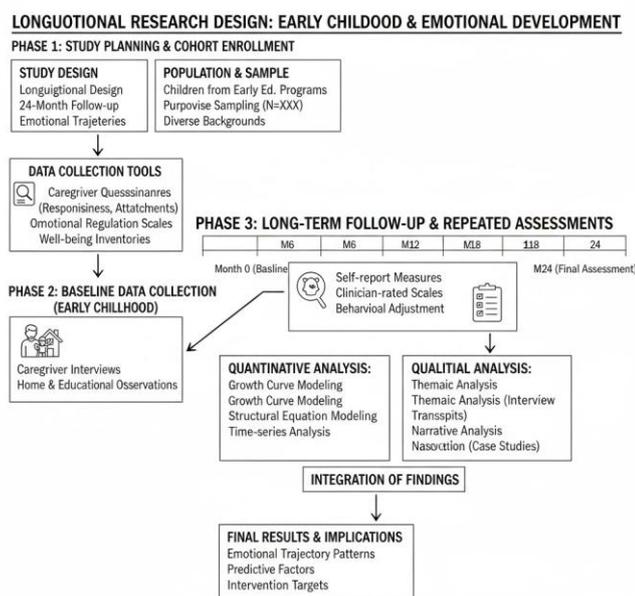


Figure 1. Research Flow

Data collection procedures involved multiple assessment waves conducted at predetermined developmental intervals. Early childhood data were gathered through caregiver interviews and observational assessments in educational and home settings. Follow-up assessments were administered during later developmental stages using self-report and clinician-rated measures. Ethical approval was obtained prior to data collection, and participant confidentiality was maintained throughout the study (Kandel et al., 2026; Sageot et al., 2026).

RESULTS AND DISCUSSION

The descriptive analysis indicates substantial variability in early childhood experiences and long-term emotional development outcomes across participants. Mean scores suggest that overall emotional regulation in later developmental stages was moderately high, while early emotional support and caregiving consistency showed wider dispersion. These variations reflect differences in early emotional environments experienced by participants.

Table 1 presents the descriptive statistics of early childhood emotional experiences and long-term emotional development indicators. The data demonstrate acceptable distribution characteristics, supporting further inferential analysis.

Table 1. Descriptive Statistics of Early Childhood Experiences and Long-Term Emotional Development

Variable	Mean	SD
Early Emotional Support	3.68	0.59
Caregiving Consistency	3.54	0.63
Long-Term Emotional Regulation	3.72	0.51
Psychological Well-being	3.61	0.56
Variable	Mean	SD

The mean values indicate that participants generally experienced moderate to high levels of emotional support during early childhood. Higher standard deviations for caregiving consistency suggest uneven emotional environments, which may contribute to differences in later emotional outcomes. Emotional regulation scores in later life stages show relative stability, reflecting the enduring influence of early experiences. Patterns observed in psychological well-being suggest that individuals exposed to emotionally supportive early environments reported greater emotional stability and resilience. These descriptive trends highlight the potential long-term impact of early emotional contexts on later emotional functioning.

Frequency analysis revealed that a majority of participants experienced moderate levels of early emotional support, while a smaller proportion reported consistently high or low levels. Long-term emotional development outcomes showed a similar distribution, with most participants demonstrating adaptive emotional regulation capacities. Table 2 presents the frequency distribution of early emotional support levels. The data indicate a concentration of participants within the moderate category, suggesting normative variability in early emotional environments.

Table 2. Frequency Distribution of Early Emotional Support Levels

Level	Frequency	Percentage
Low	42	16.8%
Moderate	139	55.6%
High	69	27.6%

Inferential analysis using Pearson correlation revealed statistically significant relationships between early childhood emotional experiences and long-term emotional development indicators. Early emotional support demonstrated a strong positive correlation with later emotional regulation and psychological well-being. Caregiving consistency also showed significant associations with emotional outcomes.

Regression analysis further indicated that early childhood emotional experiences significantly predicted long-term emotional development. Early emotional support emerged as the strongest predictor, accounting for a substantial proportion of variance in emotional regulation and well-being outcomes. Correlation analysis demonstrated a robust relationship between early emotional support and long-term emotional regulation, suggesting that emotionally responsive early environments foster adaptive emotional competencies. Caregiving consistency showed moderate correlations with psychological well-being, highlighting its role in emotional stability.

Table 3 presents the correlation matrix among key study variables. All reported correlations were statistically significant at the 0.01 level, underscoring the strength of the relationships.

Table 3. Correlation Matrix of Study Variables

Variable	Emotional Support	Caregiving Consistency	Emotional Regulation	Well-being
Emotional Support	1.00	0.48**	0.61**	0.58**
Caregiving Consistency	0.48**	1.00	0.52**	0.49**
Emotional Regulation	0.61**	0.52**	1.00	0.64**
Psychological Well-being	0.58**	0.49**	0.64**	1.00

A case study was examined to illustrate the quantitative findings in a real-life developmental context. One participant who experienced consistently high emotional support and caregiving stability during early childhood demonstrated strong emotional regulation and psychological well-being in later developmental stages. Behavioral observations and self-reported data from this case revealed adaptive emotional responses, effective stress management, and stable interpersonal relationships. These characteristics aligned with high scores on emotional development measures.

Qualitative insights from the case study indicated that early emotional experiences contributed to the development of secure attachment patterns and emotional awareness. The participant demonstrated reflective emotional processing and adaptive coping strategies in response to stressors. The explanatory value of this case lies in illustrating how early emotional environments shape long-term emotional competencies. The case supports the broader statistical findings by demonstrating the developmental continuity of emotional regulation.

The results collectively indicate that early childhood experiences exert a lasting influence on emotional development across later life stages. Emotional support and caregiving consistency during early childhood emerged as key predictors of long-term emotional regulation and psychological well-being. These findings suggest that early emotional environments serve as foundational determinants of emotional resilience. Interventions aimed at enhancing emotional support in early childhood may yield long-term benefits for emotional health and psychological functioning.

The findings of this study indicate that early childhood experiences play a significant role in shaping long-term emotional development. Emotional support and caregiving consistency during early childhood were strongly associated with later emotional regulation and psychological well-being. Individuals who experienced emotionally responsive and stable caregiving environments demonstrated more adaptive emotional outcomes across later developmental stages.

Quantitative analyses revealed that early emotional support was the strongest predictor of long-term emotional regulation. Participants with higher levels of early emotional responsiveness exhibited greater emotional stability and resilience in adolescence and adulthood. These findings emphasize the enduring influence of early emotional environments on later emotional functioning.

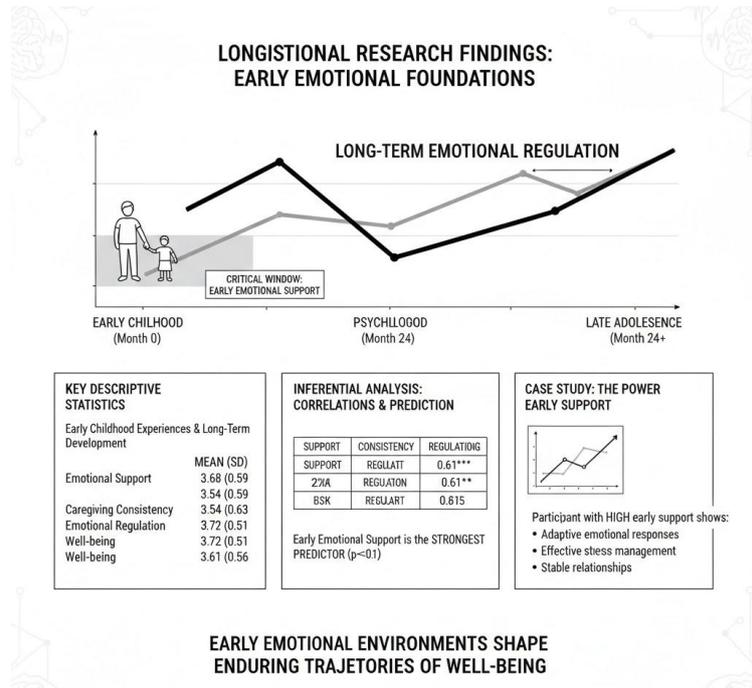


Figure 2. Conclusions of the research results

The results also show that caregiving consistency contributed meaningfully to psychological well-being. Variability in early caregiving conditions corresponded to differences in emotional adjustment, suggesting that predictability and emotional security during early childhood are critical developmental factors. Emotional development appears to be shaped cumulatively rather than episodically.

Case-based observations further reinforced the statistical findings by illustrating how early emotional experiences translated into observable emotional competencies. Patterns of reflective emotional processing, adaptive coping, and interpersonal stability observed in the case study aligned with higher early emotional support, strengthening confidence in the empirical results.

The findings are consistent with prior developmental research emphasizing the foundational role of early emotional experiences in shaping later emotional outcomes. Studies grounded in attachment theory have similarly demonstrated that early caregiver responsiveness is linked to emotional regulation and relational competence across the lifespan. The present study supports these conclusions by providing longitudinal evidence of emotional continuity.

Comparisons with research focusing on short-term childhood outcomes reveal an important extension. Many previous studies concentrate on emotional development during early or middle childhood, whereas the present findings demonstrate that early emotional experiences exert influence well beyond childhood. This temporal extension contributes to a more comprehensive understanding of emotional development.

Differences emerge when contrasted with studies that prioritize genetic or temperament-based explanations of emotional outcomes. While biological factors are undoubtedly relevant,

the present findings highlight the significant role of early relational environments. Emotional development appears to be shaped through dynamic interaction between early experiences and developmental processes.

The study also diverges from research that treats emotional difficulties as isolated outcomes of later stressors. The results suggest that emotional vulnerabilities often reflect developmental histories rooted in early emotional environments. This perspective reframes emotional outcomes as developmental trajectories rather than isolated events (Ni et al., 2026; Yigit-Gencten & Özen-Uyar, 2026).

The results of this study signal that early childhood emotional experiences serve as developmental indicators of long-term emotional functioning. High-quality emotional support during early years reflects the establishment of foundational emotional competencies that persist across developmental stages. Emotional development emerges as a cumulative process shaped by early relational patterns.

Observed associations between early emotional experiences and later emotional regulation suggest that early childhood is a critical period for learning emotional responsiveness and self-regulation. These findings indicate that emotional capacities are not solely acquired through later socialization but are deeply rooted in early emotional interactions (Chen & Ng, 2026; Nordine & McAuley, 2026).

Psychological well-being outcomes observed in the study reflect broader patterns of emotional security and resilience. Emotional stability in later life stages appears to signal successful early emotional development rather than the absence of later stressors. Emotional health can thus be understood as a developmental achievement.

The findings collectively reflect the importance of early emotional environments as markers of long-term emotional adaptability. Emotional development is revealed as an integrated process that links early caregiving experiences with later emotional competence and mental health.

The implications of these findings are substantial for early childhood education and caregiving practices. Emotional support and consistent caregiving should be recognized as core components of early developmental programs. Educational settings serving young children may benefit from prioritizing emotionally responsive interactions alongside cognitive stimulation (Jung & Duys, 2026; Terrell et al., 2026).

Mental health prevention strategies may also draw from these findings. Strengthening emotional support during early childhood could reduce vulnerability to emotional dysregulation and psychological distress in later life. Early intervention programs targeting emotional caregiving practices hold promise for long-term mental health promotion. Policy implications include the need to support families and caregivers in providing emotionally stable environments. Social policies that reduce caregiving stress and promote emotional availability may have lasting benefits for emotional development. Investment in early childhood support systems emerges as a preventive mental health strategy.

Interdisciplinary collaboration among educators, mental health professionals, and policymakers becomes increasingly relevant. Emotional development provides a shared framework for integrating early education, family support, and mental health initiatives in a cohesive developmental approach (İçli & Aydos, 2026; Klapisch et al., 2026). The observed findings can be explained through developmental neurobiology, which highlights early childhood as a period of heightened neural plasticity. Emotional systems related to stress

regulation and affective processing are particularly sensitive to environmental input during early years. Emotionally supportive experiences contribute to adaptive neural development.

Attachment-related processes provide another explanatory framework. Secure early emotional relationships foster internal working models that guide emotional responses and interpersonal expectations. These internalized patterns influence emotional regulation and psychological well-being across the lifespan. Learning mechanisms also help explain the results. Early emotional interactions serve as repeated emotional learning experiences through which children acquire strategies for managing emotions. Consistent emotional responses from caregivers reinforce adaptive emotional regulation skills (Dolling et al., 2026; Ng et al., 2026).

Environmental stability further contributes to emotional predictability and security. Early exposure to consistent caregiving reduces uncertainty and emotional reactivity, supporting the development of emotional resilience. These mechanisms collectively explain the enduring impact of early emotional experiences (Lynn & Price, 2026). Future research should employ extended longitudinal designs to track emotional development from early childhood into adulthood. Such approaches would clarify developmental pathways and identify critical periods during which emotional experiences exert the strongest influence. Long-term data could strengthen causal interpretations.

Intervention-based research may explore the effectiveness of programs designed to enhance emotional support in early childhood. Evaluating caregiver training and emotionally focused educational interventions could provide practical guidance for improving emotional outcomes. Cross-cultural studies are needed to examine how cultural norms and caregiving practices shape emotional development. Emotional experiences are embedded within cultural contexts that may influence developmental patterns and outcomes. Comparative research would enhance generalizability (McGovern, 2026; Zahra et al., 2026). Mixed-method approaches could enrich understanding of emotional development by integrating quantitative data with qualitative insights. Narrative and observational methods may reveal nuanced emotional processes that complement statistical findings, advancing a more holistic developmental framework (Dondé et al., 2026; Sevimli-Çelik & Güvelioğlu, 2026).

CONCLUSION

The most significant finding of this study is the empirical evidence that early childhood emotional experiences exert a sustained influence on long-term emotional development. Emotional support and caregiving consistency during early childhood were shown to be strongly associated with later emotional regulation and psychological well-being. These findings demonstrate that emotional development is not a transient process confined to childhood, but a cumulative developmental trajectory shaped by early relational environments.

The primary contribution of this research lies in its conceptual integration of early childhood experiences and long-term emotional development within a developmental framework. By positioning early emotional support as a foundational mechanism for later emotional resilience, the study advances existing theories that often examine emotional outcomes in isolated developmental stages. Methodologically, the use of longitudinal analysis strengthens the validity of the findings and enhances their relevance for developmental and emotional research.

The study is limited by its reliance on caregiver and self-reported measures, which may introduce subjective bias, and by contextual factors that may restrict the generalizability of the

results. The longitudinal design also faced challenges related to participant attrition over time. Future research should incorporate multi-informant assessments, experimental or intervention-based designs, and cross-cultural samples to further explore the mechanisms linking early emotional experiences with long-term emotional development.

DECLARATION OF AI AND AI ASSISTED TECHNOLOGIES IN THE WRITING PROCESS

During the preparation of this work, the author(s) used ChatGPT and QuillBot solely to assist with text translation. After using these tools/services, the author(s) reviewed and edited the content as needed and take full responsibility for the content of the publication.

AUTHOR CONTRIBUTIONS

Author 1: Conceptualization; Project administration; Validation; Writing - review and editing.

Author 2: Conceptualization; Data curation; In-vestigation.

Author 3: Data curation; Investigation.

DECLARATION OF COMPETING INTEREST

The authors declare that they have no known competing financial interests of personal relationships that could have appeared to influence the work reported in this paper.

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