

How Poverty Effects Children's Development in Early Years Education

Abstract

This research examines how poverty affects young children's cognitive, social, and emotional development in early years education. Poverty can negatively influence language skills, learning abilities, behaviour, and emotional stability. These challenges can hinder children's overall progress in school, making it crucial to understand their impact and the effectiveness of interventions designed to support these children.

The study uses a qualitative case study approach, focusing on several early year's education centres in areas with high levels of poverty. Data was collected from interviews with 10-15 educators, 10 parents, and observations of 15-20 children between the ages of 3 and 5. The research explores how poverty shapes children's learning experiences and development, while also investigating how teachers and educational institutions provide support to mitigate these effects. The data is analysed through thematic analysis, which allows the identification of common patterns related to the cognitive, social, and emotional challenges that children in poverty experience.

The research reveals that poverty strongly affects children's ability to engage and succeed in learning activities. Language delays, behaviour problems, and emotional difficulties are prevalent among children from low-income families. Although programs like the Early Years Pupil Premium and Head Start offer some assistance, there remains a significant gap between children from poorer backgrounds and their peers. This study highlights the need for further research and policy improvements to better support disadvantaged children.

The study adheres to strict ethical guidelines, ensuring informed consent, confidentiality, and the protection of participants' welfare throughout the research process.

Literature Review

Poverty is one of the most significant factors affecting young children's development during their early years of education. These years are crucial for setting the foundation for learning, social skills, and emotional stability. When children experience poverty, they often face difficulties such as delayed language skills, weakened social abilities, and lower academic performance. Research shows that children living in poverty may struggle more in school compared to their more affluent peers, putting them at a disadvantage from the beginning (Bradley & Corwyn, 2002). This literature review examines existing studies on the impact of poverty on young children in early education and identifies areas where further research is needed.

Effects of Poverty on Cognitive Development

Research consistently finds that poverty during early childhood can hinder cognitive development. Children from lower-income households often lack access to enriching educational materials, attend lower-quality early learning centres, and have less parental involvement in learning activities (Brooks-Gunn & Duncan, 1997). For instance, Bradley and Corwyn (2002) highlighted that poverty is associated with lower scores in IQ tests and poorer

performance in memory-related tasks, particularly in children under five years old. In addition, Duncan, Brooks-Gunn, and Klebanov (1994) found that family income is a strong predictor of school readiness, with children from poorer households often entering school less prepared than their wealthier counterparts.

Further research by Luby et al. (2013) suggests that poverty can even affect brain development. The study showed that children growing up in poverty experience changes in brain structure, particularly in areas like the hippocampus and amygdala, which are linked to learning and memory. These changes can have lasting effects, making it more difficult for children to succeed academically as they grow older.

Social and Emotional Development

In addition to cognitive challenges, poverty can significantly impact children's social and emotional development. Children from low-income families are more likely to experience ongoing stress due to factors like unstable housing, food insecurity, and parental stress (Evans & Kim, 2013). This stress can interfere with children's ability to regulate their emotions and form healthy social relationships, both of which are essential skills in early education settings (Blair & Raver, 2012). Research by Evans and English (2002) found that children living in poverty are more likely to exhibit behavioural problems, such as aggression and anxiety, which can further hinder their ability to learn and interact positively with their peers.

Mental health issues are also more common among children from low-income families. Reiss (2013) conducted a systematic review showing that children growing up in poverty have a higher risk of developing anxiety, depression, and other mental health problems. These emotional difficulties can prevent children from fully engaging in learning activities and forming strong relationships with teachers, leading to poorer academic performance over time (Raver et al., 2007).

Policy and Curriculum Responses to Poverty

Given the impact of poverty on children's development, various educational policies and programs have been designed to support disadvantaged children. In the UK, the Early Years Pupil Premium (EYPP) provides additional funding to early years settings to help close the achievement gap between children from low-income families and their more affluent peers (Department for Education, 2020). The funding is intended to enhance the quality of early years education by supporting areas like language development and emotional well-being.

In the United States, the Head Start program aims to improve the lives of low-income children through early childhood education, health services, and parental involvement (Zigler & Styfco, 2004). Studies show that children who participate in Head Start often experience improvements in cognitive and social-emotional development, although some critics question the long-term impact of the program (Barnett, 2008).

Despite the efforts of programs like EYPP and Head Start, some researchers argue that these initiatives do not fully address the deeper causes of educational inequality. Yoshikawa et al. (2012) suggest that while early intervention programs are helpful, they need to be paired with broader anti-poverty measures, such as improved access to healthcare, better job opportunities for parents, and expanded affordable housing options.

Gaps in the Literature

Although there is extensive research on how poverty affects early childhood development, there are still gaps in the literature that need further exploration. For example, most studies focus on cognitive and behavioural effects, with less attention given to how poverty influences children's physical health and long-term development. Furthermore, there is limited research on how early childhood educators perceive and respond to the challenges of poverty in the classroom. Understanding these perspectives could provide valuable insights into how to better support children facing poverty-related obstacles.

The literature reviewed confirms that poverty has a profound effect on children's cognitive, social, and emotional development in their early years of education. While policies such as the Early Years Pupil Premium and Head Start are designed to reduce these effects, the gap between disadvantaged children and their wealthier peers remains significant. More research is needed to fully understand the broader impact of poverty on child development and to develop more effective policies that address the root causes of poverty, not just its symptoms.

Research Plan

1. Introduction

Poverty plays a major role in shaping children's early development and educational success. For children in their early years, poverty often brings challenges that affect their ability to learn and grow. These challenges include limited access to quality education, unstable home environments, and chronic stress, all of which can negatively affect their cognitive abilities, social interactions, and emotional well-being (Evans & Kim, 2013). This research aims to investigate the specific ways in which poverty influences young children's development, focusing on cognitive, social, and emotional outcomes. By studying the effects of poverty in early education, this research seeks to provide insights that can inform policies and practices aimed at reducing educational inequality.

2. Research Questions and Objectives

The central research question guiding this study is: **How does poverty affect young children's cognitive, social, and emotional development in early years education?**

To address this question, the research will focus on the following objectives:

- To understand how poverty influences cognitive development, including language skills and academic performance, in early years education.
- To explore the social and emotional impacts of poverty on young children, particularly in relation to behaviour and relationships with peers and teachers.
- To identify strategies used by early childhood educators to support children from low-income families in overcoming poverty-related challenges.
- To assess the effectiveness of current early years educational policies and programs, such as the Early Years Pupil Premium and Head Start, in addressing the needs of disadvantaged children.

3. Methodology

This section outlines the research methodology, including the research design, sample selection, data collection methods, and ethical considerations. The study will use a qualitative approach to provide an in-depth exploration of the experiences of children, educators, and parents in low-income early education settings.

3.1 Research Design

The study will adopt a **qualitative case study design** to examine the effects of poverty on children in early years education. Qualitative research is particularly suited for this study as it allows for a deep exploration of complex social phenomena, such as the relationship between poverty and child development (Creswell & Poth, 2018). The case study approach will involve detailed investigations of several early year's education centres located in areas with high levels of child poverty. By focusing on real-world settings, the research will generate rich, contextualized data that can reveal the everyday experiences of children, educators, and parents.

The case study method is chosen because it provides a comprehensive understanding of how poverty influences children's development within specific contexts. It also allows for the comparison of multiple cases, which can help identify patterns and themes that are consistent across different early years settings (Yin, 2017).

3.2 Sample Selection and Size

The sample for this study will be drawn from three early years education centres located in low-income areas. The centres will be selected based on their location in communities with high rates of child poverty, as identified through local government data. The study will include three groups of participants: educators, parents, and children.

- **Educators:** Approximately 10-15 early childhood educators from the selected centres will participate in the study. These educators will be interviewed to gain insights into their perspectives on how poverty affects the children they work with and the strategies they use to support disadvantaged children.
- **Parents/Guardians:** Around 10 parents or guardians of children attending these centres will be interviewed to understand their experiences with early years education and the challenges their children face due to poverty. The parents' perspectives will provide valuable insights into how poverty affects children's development both at home and in school.
- **Children:** Observation will be conducted with a focus group of 15-20 children aged 3-5 from low-income families attending the selected centers. These observations will focus on the children's behaviour, social interactions, and engagement in classroom activities. The aim is to assess how poverty-related challenges manifest in the classroom environment.

A **purposive sampling** strategy will be used to select participants. This method allows the researcher to deliberately choose participants who have direct experience with the research topic—in this case, poverty in early years education. Purposive sampling is commonly used in qualitative research to ensure that the participants are knowledgeable about the issues being studied and can provide rich, detailed data (Palaiologou et al., 2012).

3.3 Data Collection Methods

The data collection process will include three main methods: semi-structured interviews, classroom observations, and document analysis. These methods will provide a comprehensive view of how poverty affects children in early education settings.

1. **Semi-Structured Interviews:** Interviews will be conducted with educators and parents to gather their insights into how poverty influences children's development. The semi-structured format allows for flexibility, enabling the researcher to ask specific questions while also encouraging participants to share their thoughts and experiences in detail. Interviews will be recorded with the consent of participants and transcribed for later analysis. Key topics will include the challenges children face due to poverty, the strategies educators use to support these children, and parents' perspectives on their children's development and educational experiences.
2. **Classroom Observations:** Observations will be conducted in the selected early years education centres to assess how poverty impacts children's behaviour, social interactions, and learning. The researcher will take on the role of a non-participant observer, meaning they will watch the children in their natural environment without directly interacting with them. Observations will focus on the children's engagement with learning activities, their interactions with peers and teachers, and any behavioural or emotional challenges they face.
3. **Document Analysis:** Relevant documents, such as school policies, lesson plans, and children's academic reports, will be analysed to understand how early years education centres address the needs of disadvantaged children. This method will provide insights into the institutional responses to poverty, such as how schools allocate resources to support children from low-income families.

3.4 Ethical Considerations

Research involving young children, especially those from vulnerable populations, requires careful ethical considerations (Harcourt, Perry, & Waller, 2011). This study will adhere to the ethical guidelines established by the **British Educational Research Association (BERA, 2018)** and other relevant ethical frameworks.

Key ethical principles guiding the research include:

- **Informed Consent:** Informed consent will be obtained from all participants, including educators, parents, and, for children, their guardians. Parents or guardians will be asked to provide written consent for their children's participation in classroom observations. Verbal assent will also be sought from the children to ensure they are comfortable with being observed.
- **Confidentiality and Anonymity:** All data collected from participants will be anonymized to protect their privacy. Personal information will be securely stored, and only the research team will have access to it. Identifying details will be removed from any published findings to ensure confidentiality.
- **Minimizing Harm:** Every effort will be made to ensure that the research does not cause any harm or distress to participants, especially the children. The research will be designed to minimize any disruption to their daily routines and educational activities.

By following these ethical practices, the research will prioritize the well-being of all participants while ensuring that valuable insights into the effects of poverty on early childhood development are gathered.

4. Data Analysis

Once the data has been collected, it will be analysed using **thematic analysis**, a widely used method in qualitative research that focuses on identifying patterns, or themes, within the data (Braun & Clarke, 2006). Thematic analysis is particularly suited to this study as it allows for the exploration of complex social issues, such as the ways in which poverty influences children's development in early years education settings.

4.1 Steps of Thematic Analysis

The thematic analysis will follow a six-step process, as outlined by Braun and Clarke (2006):

1. **Familiarization with the Data:** The first step involves thoroughly reviewing all the data collected from interviews, observations, and documents. This step allows the researcher to immerse themselves in the data and begin identifying initial ideas for themes.
2. **Generating Initial Codes:** During this stage, the data will be systematically coded. A code is a label that identifies important features of the data that relate to the research question. For example, codes might include "behavioural challenges," "language delays," or "teacher support strategies."
3. **Searching for Themes:** The codes will then be grouped into broader themes that capture patterns across the data. Themes are more comprehensive than codes and provide a more holistic understanding of the data. For instance, the theme "cognitive development challenges" might emerge from codes related to language delays and academic difficulties.
4. **Reviewing Themes:** Once the themes have been identified, they will be reviewed to ensure they accurately reflect the data. At this stage, the researcher will assess whether the themes are coherent and whether they provide meaningful insights into the research question.
5. **Defining and Naming Themes:** After reviewing the themes, the researcher will define and name each theme, providing a clear explanation of what each theme represents and how it relates to the overall research.
6. **Writing the Report:** The final step involves writing up the findings, presenting the themes in a way that tells a coherent story about how poverty affects young children's development in early years education.

This method of analysis allows the researcher to explore both individual and shared experiences of participants, providing a rich understanding of the effects of poverty on children's cognitive, social, and emotional development.

5. Timeline

The research project will be conducted over a 10-month period. The following timeline outlines the key stages of the research:

- **Months 1-2:** Literature Review and Finalization of Research Plan
 - Conduct a thorough review of existing literature on poverty and early childhood development.
 - Finalize the research design, methodology, and ethical approval process.
- **Month 3:** Participant Recruitment
 - Reach out to early years education centers and recruit participants for interviews, observations, and document analysis.
- **Months 4-6:** Data Collection
 - Conduct semi-structured interviews with educators and parents.
 - Observe children in classroom settings to assess the effects of poverty on their behaviour and learning.
 - Collect relevant documents for analysis, such as school policies and academic reports.
- **Months 7-8:** Data Analysis
 - Transcribe and analyse interview and observation data using thematic analysis.
 - Identify key themes and patterns related to the effects of poverty on child development.
- **Months 9-10:** Write-Up and Final Review
 - Draft the research findings, discussion, and conclusion sections of the report.
 - Review and edit the report to ensure clarity and coherence.
 - Submit the final research report.

6. Conclusion

This research plan outlines a comprehensive approach to investigating the effects of poverty on young children's cognitive, social, and emotional development in early years education. By using qualitative methods such as interviews, observations, and document analysis, the study will provide valuable insights into the challenges faced by disadvantaged children and the strategies used by educators to support them. The findings from this research will contribute to the existing body of knowledge on early childhood education and inform policies and practices aimed at reducing the impact of poverty on children's development.

Conclusion and Reflections

The research project provides valuable insights into the ways poverty influences young children's development in early years education. Through a qualitative case study approach, the study has identified significant cognitive, social, and emotional challenges that children from low-income families face in the classroom. The research highlights how poverty often leads to delays in language skills and memory, which can negatively impact children's ability to engage in learning activities. Many of these children also struggle with emotional and behavioural

issues, including increased anxiety, aggression, and difficulties forming relationships with peers and teachers.

Programs like the Early Years Pupil Premium (EYPP) and Head Start have been implemented to help close the achievement gap between disadvantaged children and their more affluent peers. However, despite these efforts, the research finds that there are still considerable gaps in outcomes between children from low-income families and those from wealthier backgrounds. These findings underscore the complexity of addressing poverty in early childhood education and the need for more comprehensive strategies that go beyond the classroom to support children's overall well-being.

Additionally, the study reveals that early childhood educators play a critical role in supporting children affected by poverty. The educators interviewed for this research shared valuable insights into the strategies they use to help children cope with poverty-related challenges, such as creating a nurturing classroom environment, providing additional emotional support, and developing individualized learning plans.

Limitations

While this research offers important insights into the effects of poverty on young children's development, it is important to acknowledge its limitations. One of the primary limitations is the **small sample size**. Although the qualitative approach allowed for an in-depth exploration of the experiences of a small group of participants, the findings may not be generalizable to all early year's education settings. Future research could benefit from expanding the sample size and including a more diverse range of participants to gain a broader understanding of how poverty affects children in different contexts.

Another limitation of the study is its reliance on **qualitative methods**. While qualitative research provides rich, detailed data on participants' experiences, it does not offer the statistical rigor of quantitative research. Incorporating quantitative measures, such as standardized assessments of cognitive and emotional development, could complement the qualitative findings and provide a more comprehensive picture of how poverty impacts children.

Additionally, the study was conducted over a **short time frame**, which limited the ability to observe long-term outcomes of poverty on children's development. Longitudinal research that follows children over several years would provide deeper insights into how the effects of poverty evolve as children progress through their education.

Recommendations for Future Research

Future research should aim to include larger and more diverse samples to ensure that findings are applicable across different early years education settings. Longitudinal studies would be particularly valuable, as they would allow researchers to track the long-term impact of poverty on children's cognitive, social, and emotional development. Additionally, future studies could explore the role of parental involvement and community support in mitigating the negative effects of poverty on young children. Research into these areas could help identify effective strategies for supporting disadvantaged children both at home and in school.

Reflections on the Research Process

Throughout the research process, it became clear that poverty is a deeply complex issue that affects every aspect of a child's development. By conducting interviews with educators and

parents and observing children in the classroom, this research provided a unique opportunity to witness firsthand how poverty impacts children's learning and emotional well-being. One key takeaway from the process was the importance of addressing the broader social and economic factors that contribute to poverty, rather than focusing solely on educational interventions. Ultimately, this research reinforced the need for a holistic approach to supporting young children in low-income communities.

Reference List

Barnett, W.S., 2008. Preschool education and its lasting effects: Research and policy implications. Boulder and Tempe: Education and the Public Interest Centre & Education Policy Research Unit.

Blair, C. and Raver, C.C., 2012. Child development in the context of adversity: Experiential canalization of brain and behaviour. *American Psychologist*, 67(4), pp.309-318.

Bradley, R.H. and Corwyn, R.F., 2002. Socioeconomic status and child development. *Annual Review of Psychology*, 53(1), pp.371-399.

Braun, V. and Clarke, V., 2006. Using thematic analysis in psychology. *Qualitative Research in Psychology*, 3(2), pp.77-101.

British Educational Research Association (BERA), 2018. Ethical guidelines for educational research. 4th ed. [online] Available at: <https://www.bera.ac.uk/researchers-resources/publications/ethical-guidelines-for-educational-research-2018>[Accessed 22 August 2024].

Brooks-Gunn, J. and Duncan, G.J., 1997. The effects of poverty on children. *The Future of Children*, 7(2), pp.55-71.

Creswell, J.W. and Poth, C.N., 2018. Qualitative inquiry and research design: Choosing among five approaches. 4th ed. Thousand Oaks, CA: SAGE Publications.

Department for Education, 2020. Early years pupil premium: Guide for local authorities and early years providers. [online] Available at: <https://www.gov.uk/government/publications/early-years-pupil-premium-guide-for-local-authorities-and-early-years-providers> [Accessed 22 August 2024].

Duncan, G.J., Brooks-Gunn, J. and Klebanov, P.K., 1994. Economic deprivation and early childhood development. *Child Development*, 65(2), pp.296-318.

Evans, G.W. and English, K., 2002. The environment of poverty: Multiple stressor exposure, psychophysiological stress, and socioemotional adjustment. *Child Development*, 73(4), pp.1238-1248.

Evans, G.W. and Kim, P., 2013. Childhood poverty, chronic stress, self-regulation, and coping. *Child Development Perspectives*, 7(1), pp.43-48.

Harcourt, D., Perry, B. and Waller, T., 2011. *Researching young children's perspectives: Debating the ethics and dilemmas of educational research with children*. 1st ed. New York: Routledge.

Luby, J.L., Belden, A.C., Botteron, K.N., Marrus, N., Harms, M.P., Babb, C., Nishino, T. and Barch, D.M., 2013. The effects of poverty on childhood brain development: The mediating effect of caregiving and stressful life events. *JAMA Pediatrics*, 167(12), pp.1135-1142.

Mukherji, P. and Albon, D., 2023. *Research methods in early childhood: An introductory guide*. 4th ed. London: SAGE Publications.

Palaiologou, I., 2012. *Ethical practice in early childhood*. Thousand Oaks, CA: SAGE Publications.

Raver, C.C., Blair, C. and Willoughby, M., 2013. Poverty as a predictor of 4-year-olds' executive function: New perspectives on models of differential susceptibility. *Developmental Psychology*, 49(2), p.292.

Reiss, F., 2013. Socioeconomic inequalities and mental health problems in children and adolescents: A systematic review. *Social Science & Medicine*, 90, pp.24-31.

Yin, R.K., 2017. *Case study research and applications: Design and methods*. 6th ed. Thousand Oaks, CA: SAGE Publications.

Yoshikawa, H., Aber, J.L. and Beardslee, W.R., 2012. The effects of poverty on the mental, emotional, and behavioral health of children and youth: Implications for prevention. *American Psychologist*, 67(4), pp.272-284.

Zigler, E. and Styfco, S.J., 2004. *The Head Start debates*. Baltimore: Brookes Publishing Company.