

AN ANALYSIS OF THE CONSEQUENCES OF INTEGRATING CHILDREN PREDISPOSED TO DELAYS IN GROWTH IN EARLY CHILDHOOD INTERVENTION PROGRAMS.

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ABSTRACT

By analyzing the results of early intervention programs for children at high risk of developmental delays, researchers may get a better understanding of the ways in which early support shapes developmental paths. As a part of the quantitative research method, 1,850 families were issued a structured questionnaire. In the end, SPSS version 25 was used to analyze 1,788 valid responses. Utilizing descriptive statistics and analysis of variance, the Researchers investigated the relationship between early intervention participation and many sets of developmental outcomes, such as social-emotional and cognitive capacities. Early intervention had a very significant positive effect, as shown by the data (F-value: 2543.581, p-value: less than 0.001). Children who were a part of these programs were able to accomplish their developmental milestones at a much younger age than their non-participating classmates. This study highlights the significance of teamwork among families, educators, and doctors in providing a safe and supportive environment for children with developmental delays. Researchers found that easily available early intervention therapies are necessary to improve developmental outcomes and provide resources for policy allocations that promote increased awareness. Hence, if the Researchers want at-risk children to have a better life and a better chance of success in the long run, the Researchers must engage in early intervention. There is mounting evidence that early intervention is critical, and the researchers study adds to that body, demonstrating that support for vulnerable groups is a dynamic landscape.

Keywords: Obstacles in growth, pediatric development early intervention campaigns, and evaluation of results.

1. INTRODUCTION

A wide range of programs are collectively known as "early intervention" (EI) and their goal is to help families and children reach their full academic and physical potential (Aaronson et al., 2021). The goal of these programs is to assist families reach their full potential by enhancing their

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physical, emotional, social, and cognitive abilities. The goal of emotional intelligence (EI) is to prevent children from falling behind in school by making them smarter. Impairments in areas such as self-care, language (expressive and receptive), learning, mobility, self-direction, independent living, or economic self-sufficiency are what constitute a developmental delay. Possible causes of these lags include genetics and environmental factors. Because their brains are still developing, children less than three years old need immediate assistance. A crucial component of an EI program's efficacy is the timing of developmental stages. Getting EI services while kids are younger has more of an impact, both immediately and in the long run, than waiting until they're older. Programs that are comprehensive and include many or all disciplines have a stronger effect on the outcomes for children, as opposed to those that just target one service center. When compared to larger transdisciplinary or multidisciplinary programs, the impact of smaller service centers on children's results is lower. Having enough money available is another factor that helps healthcare be delivered efficiently. The lack of resources needed to implement ELF programming effectively and quickly is a major obstacle to its widespread implementation in China. The annual expense of sending a Chinese child to an EI program is sometimes above \$55,000. The lifelong cost of caring for an autistic kid may be reduced by up to 75% if enough EI services are provided, which is an economic gain. Since neither the federal nor the central government in China requires the services or rules that manage early intervention programs, it is up to the different province and territorial governments to do so. Accordingly, monies allocated to EI projects vary among jurisdictions. So yet, no comprehensive assessment of EI programs throughout China's provinces and regions has been conducted. The purpose of this study was to analyze China's service delivery system and determine its advantages and disadvantages (Bach et

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al., 2022). Among the characteristics that were compared were the perspectives of parents and children on the program's effectiveness and results, as well as their satisfaction with government aid. Average wait times, the number of EI specialists on staff, and funding were other considerations. Since the brain undergoes tremendous growth and change over the first eight years of a person's existence, this time is critical for the brain's rapid development. Skills in physical development, cognitive maturation, and social-emotional development are most fully realized during the early years of life. The goal of preschool education is to ensure that children progress steadily through the developmental stages. Preschool programs may be beneficial for children with different cognitive capacities. The Researcher's may assume that typically developing children attain each milestone at a certain date since children grow at varying rates throughout their lives. Preschool instructors are usually the first to detect a child's stunted development. Preschool teachers are often the last to notice when their kids are falling behind in development as they are so focused on getting their students ready for elementary and secondary school. The two most crucial things for early childhood education instructors to undertake are to identify their pupils' areas of struggle and to modify their teaching methods accordingly (Bradshaw et al., 2022).

2. BACKGROUND OF THE STUDY

Physical, mental, and social development are all aspects of a child's maturation that are impacted by many causes. Aspects of physical development include the maturing of the body and the

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enhancement of sensory, motor, and coordinated capacities. A person's cognitive abilities—their ability to think, perceive, recall, recognize, solve problems, know, feel, learn, memorize, and judge is all part of their mental growth. Communication skills, emotional intelligence, and the capacity for imaginative play all flourish as a person matures socially. A baby's environment has a key role in shaping their growth and development throughout the first few years. Financial difficulties and interactions with caretakers may have far-reaching consequences, such as, but not limited to, starvation, isolation, illness, parental mortality, aggression, and infections. Children from low-income families may face difficulties that hinder their social, cognitive, and psychological development. Since the definition of a developing country is not universally agreed upon, Low- and Middle-Income Nations (LAMI), often called as developing nations, endure severe poverty and despair. The phrase "developing country" causes quite a commotion. Abbreviated as "LAMI," which stands for "low- and middle-income countries," it is most appropriate for this research. The economic standing of a country is a key component of the LAMI countries concept, as per the methodology of the World Bank Atlas. Damage to brain development and growth may result from malnutrition, which is most noticeable in the early years of life. Additionally, there is a strong correlation between developmental loss and educational possibilities. Both things could slow a child's development. There is a severe lack of data on the development and growth of children in the first few years of life in the LAMI area. This discrepancy is a perfect example of the current tendency to ignore low-income regions. One approach to gauge the severity of the issue is to monitor the percentage of primary school pupils who drop out. Primary school completion rates are low at 78%. One of the Millennium Development Goals established by the United Nations is the completion of primary education. A

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certain way to get there is to start enhancing kids' cognitive capacities while they're young. In the end, it's tougher for low-income parents to provide their kids with an engaging and exciting environment that helps them grow and develop since they don't have as much time and energy to do so (Chen et al., 2021).

3. PURPOSE OF THE RESEARCH

Children at high risk for developmental delays are the subject of this study, which aims to examine their participation in early intervention programs. This research seeks to discover the advantages of early intervention on social, emotional, cognitive, and cognitive development by investigating the results linked to quick access to specialist support services. This research aims to educate lawmakers, healthcare providers, and educators on the need for early intervention programs for children with developmental delays so that they may achieve optimal developmental outcomes. To sum up, the results provide support for data-driven programs that improve the well-being and future opportunities of underprivileged adolescents.

4. LITERATURE REVIEW

Since most preschoolers and toddlers are experiencing school for the first time, it is essential that teachers observe and record any unexpected patterns of development (Daelmans et al., 2021). They need specialist knowledge to identify students who might benefit from special education programs and to decide which testing centers to send them to. Preschools are places where

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children may learn and grow in various ways; if they aren't meeting developmental goals by the time they're five years old, it might be a sign of something more severe. It is critical for teachers to recognize kids who may be facing developmental delays, recommend that they be screened for special education, maintain communication with families, and encourage them to use available services. Parent screening methods, such as the Ages and Stages Questionnaire (ASQ), may gather information that isn't accessible via more traditional means of assessing pupils' development, such as informal observations and teacher assessments. Preschool teachers are in a prime position to educate parents about special education programs for young children and the Individuals with Disabilities Education Act (IDEA), which offers financial assistance to families with children who have special needs. In China, people are very divided over what constitutes a development delay. When it comes to changing their conduct, children who are born with a developmental delay—a mental disorder that manifests in early childhood—face difficulties. Developmental delays are defined as delays in physical, cognitive, social, emotional, linguistic, or adaptive development of children in China between the ages of three and nine. Congenital or acquired delays or impairments may lead to problems with self-care, language (both receptive and expressive), learning, mobility, self-direction, independent living, or economic selfsufficiency. A birth abnormality, a lag in development, or a disease that didn't show up until later in life might cause these problems. Children under the age of nine who match the previously mentioned characteristics are the primary focus of the research team so that they may begin to take precautions. Between the ages of 0 and 8, about 29,000 children in China have significant developmental impairments; most of these children are in elementary and preschool programs. More and more evidence suggest that EI is mostly shaped by early brain development. Emotional

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intelligence (EI) has a strong biological foundation in the early stages of brain development, when crucial neural connections are formed. It is essential to intervene early since children's brains are more plastic and can absorb new knowledge faster than adults. During the first three years of a child's life, a time of substantial synapse growth, several environmental and contextual factors influence the child's development. Thanks largely to developments in pertinent technologies, the area of neurology has seen tremendous expansion in the last fifteen years. Therefore, their perspectives on the maturation of the cerebral cortex have changed significantly. The nurturing environment and early experiences a kid has have a profound impact on their brain development. A child's healthy development depends on his or her ability to form positive relationships with caring adults and peers. To flourish to their fullest potential, children need nurturing relationships with both adults and their peers. A child's upbringing may have far-reaching effects on their personality and behavior. It is more difficult for a person to reach their full neurological potential once this window of opportunity has passed. That a child's formative years should be given the same importance as their official schooling. Today, there is a wider range of alternatives available to families and children who need early intervention services. It is anticipated that this tendency will continue, considering the rapidity with which a child's brain grows, which greatly influences their future (Dehorter & Del Pino, 2020).

5. RESEARCH QUESTIONS

• What is the impact of poor nutrition on early intervention?

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6. RESEARCH METHODOLOGY:

6.1 Research design:

Researchers used SPSS version 25 for the quantitative data analysis. The 95% confidence interval and odds ratio together elucidated the genesis and evolution of this statistical link. The p-value was determined to be below 0.05, indicating statistical significance. A comprehensive understanding of its fundamental characteristics was attained by descriptive data analysis. Quantitative procedures are characterized by using computers for data processing and the application of mathematical, arithmetic, or statistical methods to objectively assess replies from surveys, polls, or questionnaires.

6.2 Sampling:

A random sampling technique was applied for the study. The research relied on questionnaires to gather its data. The Rao-soft program determined a sample size of 1736. A total of 1850 questionnaires were distributed; 1816 were returned, and 28 were excluded due to incompleteness. In the end, 1788 questionnaires were used for the research comprising 983 females and 805 men.

6.3 Data and Measurement:

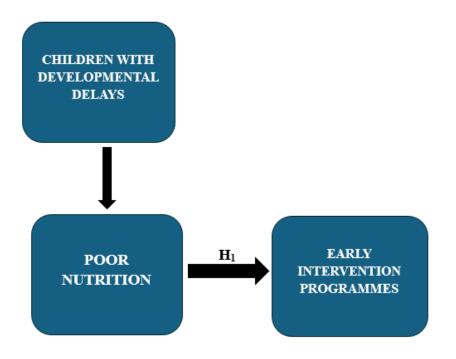
The primary method of collecting data for research was questionnaire surveys. In section A, participants were requested to provide fundamental demographic details; in section B, they were Cuest.fisioter.2024.53(3):925-944



instructed to evaluate the significance of diverse channels, both online and offline, using a 5-point Likert scale. A diverse array of secondary sources, including online databases, was meticulously examined to get the necessary information.

- **6.4 Statistical Software:** The statistical analysis was conducted using SPSS 25 and MS-Excel.
- **6.5 Statistical Tools:** To grasp the fundamental character of the data, descriptive analysis was used. The researcher is required to analyze the data using ANOVA.

7. CONCEPTUAL FRAMEWORK



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8. RESULT

Factor Analysis

One typical use of Factor Analysis (FA) is to verify the existence of latent components in

observable data. When there are not easily observable visual or diagnostic markers, it is common

practice to utilise regression coefficients to produce ratings. In FA, models are essential for success.

Finding mistakes, intrusions, and obvious connections are the aims of modelling. One way to

assess datasets produced by multiple regression studies is with the use of the Kaiser-Meyer-Olkin

(KMO) Test. They verify that the model and sample variables are representative. According to the

numbers, there is data duplication. When the proportions are less, the data is easier to understand.

For KMO, the output is a number between zero and one. If the KMO value is between 0.8 and 1,

then the sample size should be enough. These are the permissible boundaries, according to Kaiser:

The following are the acceptance criteria set by Kaiser:

A pitiful 0.050 to 0.059, below average 0.60 to 0.69

Middle grades often fall within the range of 0.70-0.79.

With a quality point score ranging from 0.80 to 0.89.

They marvel at the range of 0.90 to 1.00.

Table1: KMO and Bartlett's Test

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Testing for KMO and Bartlett's

Sampling Adequacy Measured by Kaiser-Meyer-Olkin .940

The results of Bartlett's test of sphericity are as follows: approx. chi-square

df=190

sig.=.000

This establishes the validity of assertions made only for the purpose of sampling. To ensure the relevance of the correlation matrices, researchers used Bartlett's Test of Sphericity. Kaiser-Meyer-Olkin states that a result of 0.940 indicates that the sample is adequate. The p-value is 0.00, as per Bartlett's sphericity test. A favorable result from Bartlett's sphericity test indicates that the correlation matrix is not an identity matrix.

Table: KMO and Bartlett's

KMO and Bartlett's Test						
Kaiser-Meyer-Olkin Measure of Sampling Adequacy940						
Bartlett's Test of Sphericity	Approx. Chi-Square	3252.968				
	df	190				
	Sig.	.000				

The overall importance of the correlation matrices was also validated by Bartlett's Test of Sphericity. The Kaiser-Meyer-Olkin sampling adequacy is 0.940. Utilizing Bartlett's sphericity

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test, researchers obtained a p-value of 0.00. A notable result from Bartlett's sphericity test indicated that the correlation matrix does not qualify as a correlation matrix.

❖ INDEPENDENT VARIABLE

• Children With Development Delays

A developmental delay happens when kids don't finish specific developmental milestones at the expected rates. Delays in these areas may impact several domains, including as cognition, communication, motor abilities, sociability, and language. Children have a better chance of overcoming obstacles if they are taught to seek assistance at an early age (Ellis et al., 2022).

***** FACTOR

• Poor Nutrition

If the body does not get the proper nutrients to be healthy and perform at its best, it is said to be suffering from poor nutrition. It includes both under- and over-nutrition, which may cause a host of short- and long-term health issues (Grzadzinski et al., 2021). Conditions including stunted development, decreased immunity, weariness, and nutritional deficits may arise from undernutrition, which happens when the body does not get enough of certain nutrients. These nutrients include vitamins, minerals, proteins, carbs, and fats. However, problems including obesity, metabolic abnormalities, and an increased risk of chronic illnesses may result from overnutrition, which is defined as an excessive intake of calories, harmful fats, and carbohydrates.

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Inadequate availability of nutritious food, imbalanced diets, ignorance about proper nutrition, unhealthy eating habits, and social and economic issues all contribute to poor nutrition. Food deserts, where healthy food options are few, and dietary habits shaped by processed and quick meals are two examples of cultural and environmental variables that may make this problem worse. Because it adds to a substantial illness burden and financial stress on healthcare systems globally, poor nutrition is both an individual and public health problem. Mental health, cognitive development, and general quality of life are all negatively impacted by inadequate nutrition, in addition to physical health. Poor nutrition during important growth phases, for instance, may lead to developmental delays and worse academic performance in children and lower productivity and sickness risk in adults. To improve health outcomes for people and communities, it is necessary to address inadequate nutrition in a holistic way. This means boosting knowledge, increasing food accessibility, bolstering sustainable agriculture, and encouraging balanced eating choices (Hohlfeld et al., 2021).

❖ DEPENDENT VARIABLE

Early Intervention Programmes

An approach to describing the tools available to families in their quest to assist young children who are experiencing impairments or developmental delays. The plan may include treatments like speech therapy, physical therapy, and others based on the needs of the family and the child. Support services for families with young children who are impaired or have developmental delays are called. Speech therapy, physical therapy, and other treatments may be part of the plan, depending on what the family and child need. An intervention program may be more suited to handle an 937

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individual's specific collection of issues. Helping the person overcome their obstacles via the use of strategies, tactics, and activities is a part of the process. Helping a troubled individual recognize they need help, making a safe home environment, recognizing enabling habits, and setting appropriate boundaries are all part of an intervention's plan (Iverson, 2021).

• Relationship Between Poor Nutrition and Early Intervention Programmes

A child's physical, mental, and emotional development may be severely impacted by malnutrition throughout crucial stages of development, which is why early intervention programs are directly related to poor nutrition. By spotting and treating malnutrition and its impacts on children at an early stage, early intervention programs may lessen these effects and help kids reach their full potential in terms of growth and development. Stunted growth compromised immune systems, developmental delays, and cognitive impairments are among the many negative effects that may result from inadequate nutrition, particularly during pregnancy and the early years of life. Poverty, a lack of knowledge about proper nutrition, and restricted access to nutritious food all contribute to these problems. Aiming to address these issues by offering targeted assistance to at-risk groups, early intervention programs may include nutritional counseling, dietary supplements, and health monitoring. Initiatives aimed at preventing malnutrition and promoting healthy eating habits in young children, like school meal programs or community-based nutrition education, can have a positive impact on birth outcomes and the risk of low birth weight in pregnant women. Intervention specific requirements of each family, early intervention programs often work in tandem with medical professionals, educational institutions, and community groups.



Improving children's health and well-being in the short term is only the beginning; early intervention programs help kids thrive in the long run by tackling the causes of inadequate nutrition and how it affects their development. This correlation highlights the need for early intervention approaches that include dietary interventions to end the vicious cycle of poverty and bad health and provide hope to marginalized communities (Lee & Kim, 2022).

Based on the above discussion, the researcher proposed the following hypothesis to analyze the link between knowledge management and the effective management of tacit knowledge.

- H_{01} : There is no significant relationship between Poor Nutrition and Early Intervention Programmes.
- H₁: There is a Significant relationship between Poor Nutrition and Early Intervention Programmes.

Table 2: H₁ ANOVA Test

ANOVA							
Sum							
	Sum of Squares	df	Mean Square	F	Sig.		
Between Groups	77682.610	753	7438.324	2445.483	.000		
Within Groups	778.854	1034	7.629				
Total	81534.376	1787					

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In this study, the result will significant. The value of F is 2445.483, which reaches significance with a p-value of .000 (which is less than the .05 alpha level). This means the " H_1 : There is a Significant relationship between Poor Nutrition and Early Intervention Programmes" is accepted and the null hypothesis is rejected.

9. DISCUSSION

We now know more about how these early interventions affect at-risk youngsters because of this research. By demonstrating a positive and statistically significant association between these programs' use and higher development outcomes, research validated the essential need of rapid intervention (Peterson & McCollister, 2019). These results corroborate the mountain of evidence suggesting that cognitive and social-emotional development, among others, may benefit greatly from early intervention. Assuming they receive the individualized attention, they need, these programs may be able to aid children who would not otherwise have the chance to become self-sufficient. The foundation for long-term academic success and social integration is laid by this early support, which also helps with short-term abilities. Another significant outcome is the increased involvement of families, educators, and healthcare professionals in early intervention. This comprehensive approach helps children cope with the various obstacles caused by developmental delays. With the knowledge and resources to evaluate their child's needs and comprehend the intricate mechanisms that cause developmental delays, families may better assist their children via intervention programs. Additional research into the elements of early

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intervention that produced the greatest outcomes should be pursued, according to the report. Evidence about the most successful treatment methods allows for the optimization of programs and applications. This includes behavioral treatments, occupational therapy, and speech therapy. Consequently, evidence-based practice is vital for early intervention programs to maximize their effectiveness. The results have also brought attention to the issue of how to get people to know about early intervention programs. Some families may not know about these readily available options, or they may have trouble accessing them. More individuals would be aware of and able to attend early intervention programs, which would increase their effectiveness and rescue more at-risk children. Early intervention programs would be very beneficial for children with developmental delays, according to this study's authors. The high positive outcomes linked with such intervention demonstrate the critical importance of proactive actions toward early adjustment of developmental trajectories. Only by funding and advocating for early intervention programs can the Researcher's create a more inclusive environment that helps all children, including those with developmental impairments, develop their talents (Richardson et al., 2019).

10. CONCLUSION

It is clear from all this evidence that early intervention programs would be very beneficial for children who are at risk for developmental delays. Based on the evidence that has been compiled, early intervention does more than improve short-term developmental outcomes; it establishes a groundwork for success in every possible area, including fundamental physical skills, socialemotional development, and cognitive and behavioral development. The strong association 941

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between early intervention program participation and better developmental trajectories among children should make these programs easily accessible to families. Together, parents, educators, and healthcare providers can better understand the unique challenges experienced by children with developmental delays and establish a system to help these kids succeed. Consequently, further research into the many aspects of early intervention that might lead to better outcomes is required. It is possible to enhance programs for children with various needs by identifying and adjusting the relevant parts. Early intervention programs are beneficial because they help at-risk youngsters develop. Their prioritization of these initiatives made a significant difference in the lives of those affected by these challenges, leading to a more stable and supportive environment for the development of all children.

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