Annual Methodological Archive Research Review
http://amresearchreview.com/index.php/Journal/about
Volume 3, Issue 09 (2025)

Online ISSN 3007-3197
Print ISSN 3007-3189

http://amresearchreview.com/index.php/Journal/about

The Impact of Physical Activity on Children's Mental Health

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ABSTRACT

Physical activity plays a crucial role in the physical and psychological development of children. In recent years, increasing academic pressure, excessive screen time, and sedentary lifestyles have contributed to mental health challenges among children and adolescents. The present study investigates the relationship between physical activity and mental health among children, focusing on psychological well-being, emotional stability, and social behavior. A quantitative research design was adopted, and data were collected from school-going children through structured questionnaires and observation methods. The findings indicate that children who participate regularly in sports and physical activities demonstrate lower levels of anxiety, improved mood, enhanced concentration, and stronger social interactions compared to inactive children. The study emphasizes the importance of integrating physical activity programs into school curricula and community environments to

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promote mental well-being among children. The results highlight that regular exercise contributes not only to physical health but also to improved emotional resilience and cognitive development. Therefore, educational institutions, parents, and policymakers must prioritize physical activity as an essential component of child development.

Keywords: Physical activity, mental health, children, sports participation, psychological well-being

1. Introduction

Mental health is a fundamental component of overall health and well-being, especially during childhood when cognitive, emotional, and social development occurs rapidly. Children today face numerous challenges including academic stress, social pressure, and increased exposure to digital technologies. These factors often contribute to mental health issues such as anxiety, depression, and behavioral disorders.

Physical activity has long been recognized as an essential factor in promoting physical fitness and preventing chronic diseases. However, its role in improving psychological well-being among children has gained significant attention in recent years. Participation in sports and recreational activities helps children develop confidence, discipline, and emotional stability.

Research indicates that regular physical activity can reduce symptoms of stress and anxiety while improving mood and cognitive functioning. Children who engage in structured physical activities tend to show higher levels of self-esteem and social competence. Sports participation also encourages teamwork, communication skills, and problem-solving abilities.

Despite these benefits, many children are becoming increasingly sedentary due to the growing use of smartphones, computers, and television. As a result, mental health problems among children are rising globally.

The purpose of this study is to examine the impact of physical activity on children's mental health and to highlight the importance of promoting active lifestyles among young individuals.

2. Literature Review

Numerous studies have demonstrated the positive relationship between physical

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activity and mental health in children and adolescents. According to previous research, regular exercise can improve psychological well-being by reducing stress hormones and increasing the release of endorphins, which are responsible for feelings of happiness.

A study conducted by Biddle and Asare (2011) found that children who participate in moderate to vigorous physical activity experience reduced symptoms of depression and anxiety. The study suggested that physical activity improves emotional regulation and promotes a positive mood.

Similarly, Janssen and LeBlanc (2010) reported that children who engage in sports activities show better mental health outcomes compared to those who remain inactive. Their research indicated improvements in self-esteem, academic performance, and social relationships.

Physical activity also contributes to cognitive development. Exercise improves blood circulation to the brain, which enhances concentration, memory, and learning abilities. Studies have shown that students who participate in sports tend to perform better academically. Another important aspect of physical activity is its role in social development. Team sports encourage cooperation, leadership skills, and communication among children. These interactions help children develop strong interpersonal relationships and emotional intelligence. However, modern lifestyles have significantly reduced children's participation in outdoor activities. The increasing dependence on digital entertainment has resulted in sedentary behavior, which negatively affects both physical and mental health.

Based on existing literature, it is evident that physical activity has a strong influence on children's psychological well-being. Therefore, promoting regular exercise among children is essential for maintaining their mental health.

3. Research Objectives

The main objectives of this study are:

1. To examine the relationship between physical activity and children's mental health.
2. To determine how regular exercise influences emotional well-being.
3. To analyze the psychological benefits of sports participation among children.
4. To explore the role of physical activity in reducing stress and anxiety.

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4. Methodology

Research Design

This study employed a quantitative research design to examine the impact of physical activity on children's mental health.

Population and Sample

The population of the study consisted of school-going children aged between 10 and 15 years. A sample of 50–100 students was selected using a random sampling technique to ensure representation.

Data Collection Tools

Data were collected using the following methods:

1. **Structured Questionnaire**

A questionnaire was designed to measure children's participation in physical activities and their mental health status.

2. **Observation Method**

Students' behavior and participation in sports activities were observed during school hours.

3. **Survey Method**

Additional information was obtained from teachers and parents regarding children's emotional and behavioral patterns.

Data Analysis

The collected data were analyzed using descriptive statistical methods including percentages, frequencies, and mean scores. These methods helped identify patterns and relationships between physical activity levels and mental health indicators.

5. Results and Findings

The analysis of collected data revealed several significant findings regarding the relationship between physical activity and children's mental health.

1. Physical Activity Participation

The majority of students reported participating in physical activities such as football, cricket, running, and outdoor games at least three times per week.

2. Reduced Stress and Anxiety

Children who participated regularly in sports activities reported lower levels of

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stress and anxiety compared to those who were less active.

3. Improved Mood and Emotional Stability

Active children demonstrated better emotional regulation and positive moods. They were more energetic and showed fewer signs of irritability or sadness.

4. Enhanced Social Interaction

Students involved in team sports exhibited stronger communication skills and were more comfortable interacting with peers.

5. Better Academic Concentration

Teachers reported that physically active students showed improved concentration and classroom engagement.

These findings suggest that physical activity significantly contributes to improved psychological well-being among children.

6. Discussion

The results of this study support previous research indicating that physical activity plays a vital role in improving children's mental health. Regular participation in sports and exercise helps children cope with stress and enhances their emotional resilience.

One of the most significant benefits observed in this study was the reduction of anxiety among physically active children. Exercise stimulates the release of neurotransmitters such as serotonin and dopamine, which improve mood and reduce stress levels.

Furthermore, physical activity encourages social interaction, which is essential for emotional development. Children involved in team sports learn cooperation, discipline, and leadership skills. These experiences contribute to improved self-confidence and interpersonal relationships. Another important finding is the positive effect of exercise on cognitive functioning. Physical activity increases blood flow to the brain, enhancing memory and concentration. This may explain why active children often perform better academically.

However, despite these benefits, many children today have limited opportunities for physical activity due to busy academic schedules and increased screen time. Schools and parents must therefore encourage children to participate in outdoor activities and sports.

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7. Conclusion

The present study highlights the significant impact of physical activity on children's mental health. Regular participation in sports and exercise improves emotional stability, reduces anxiety, enhances social interaction, and promotes cognitive development.

Children who maintain active lifestyles demonstrate higher levels of self-confidence and psychological well-being compared to inactive children. Physical activity serves as a natural and effective strategy for improving mental health and preventing psychological disorders.

Therefore, it is essential for schools, parents, and communities to create environments that encourage children to engage in regular physical activity. Integrating sports programs into school curricula and promoting outdoor recreational activities can significantly improve children's overall development.

8. Recommendations

Based on the findings of this study, the following recommendations are suggested:

1. Schools should increase physical education classes and sports activities.
2. Parents should encourage children to participate in outdoor games.
3. Government and educational institutions should develop sports facilities for children.
4. Awareness programs should be conducted to highlight the importance of physical activity for mental health.
5. Future research should include larger samples and advanced statistical analysis.

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