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EDUCATIONAL CHALLENGES, SOCIAL DETERMINANTS INFLUENCING ACADEMIC ACHIEVEMENT AMONG ADOLESCENTS WITH VISUAL IMPAIRMENT: A THEMATIC REVIEW

D. LEELI PUSHPAM[1] , DR. T. SAHAYA SAILA[2]

[1]RESEARCH SCHOLAR N.K.T. NATIONAL COLLEGE OF EDUCATION FOR WOMEN CHENNAI – 600005, TAMIL NADU, INDIA. EMAIL: LEELIPUSHPAMKDS@GMAIL.COM
[2]ASSISTANT PROFESSOR & RESEARCH SUPERVISO N.K.T. NATIONAL COLLEGE OF EDUCATION FOR WOMEN
CHENNAI – 600005, TAMIL NADU, INDIA EMAIL: ARUNSAILAJESUN@YAHOO.CO.IN
CORRESPONDING AUTHOR: DR. T. SAHAYA SAILA

Abstract
Academic achievement among adolescents with visual impairment is shaped by a complex interaction of social, educational, and environmental factors. Although advances in inclusive education have improved educational access, disparities in academic outcomes continue due to variations in family support, peer relationships, teacher preparedness, institutional resources, and social inclusion. This thematic review synthesizes empirical studies published between 2021 and 2024 to examine how these social determinants influence the academic achievement of adolescents with visual impairment. Relevant literature was retrieved from peer-reviewed journals indexed in Scopus, Web of Science, ERIC, and Google Scholar using predefined search terms related to visual impairment, academic achievement, social determinants, and inclusive education. The reviewed studies consistently demonstrate that supportive family environments, positive peer interactions, inclusive teaching practices, accessible learning resources, and institutional support significantly enhance academic engagement and achievement. Conversely, stigma, inadequate accessibility, limited teacher training, and insufficient educational resources remain major barriers to learning. The review identifies critical research gaps, particularly the limited integration of psychosocial determinants within inclusive education research, and highlights the need for collaborative interventions involving families, schools, policymakers, and rehabilitation professionals. The findings contribute to the growing body of evidence supporting holistic educational strategies that promote equity, participation, and academic success for adolescents with visual impairment.

Keywords: Visual impairment; Academic achievement; Social determinants; Inclusive education; Family support; Peer relationships; Teacher attitudes; Social inclusion.

1. INTRODUCTION

Education is universally recognized as a fundamental human right and serves as a critical pathway toward social inclusion, independence, and improved quality of life. For adolescents with visual impairment, academic achievement extends beyond cognitive ability and is substantially influenced by social and environmental contexts. Despite global efforts to promote inclusive education, many students with visual impairment continue to encounter barriers that limit their educational participation and academic performance.

Social determinants—including family support, peer acceptance, teacher attitudes, institutional accessibility, and inclusive educational practices—play a pivotal role in shaping learning experiences. Positive social environments foster confidence, motivation, and active participation, whereas discrimination, inadequate accommodations, and social isolation often hinder educational progress.

Recent research has increasingly emphasized that educational success among students with visual impairment depends not only on individual capabilities but also on the quality of support systems

available within schools, families, and communities. Therefore, understanding these determinants is essential for developing evidence-based educational policies and inclusive practices.
This thematic review synthesizes recent empirical evidence to identify the principal social determinants influencing academic achievement among adolescents with visual impairment and discusses their implications for educational research and practice.

2. OBJECTIVES OF THE REVIEW

The review was guided by the following objectives:
1. To identify the major social determinants influencing academic achievement among adolescents with visual impairment.
2. To synthesize recent empirical evidence regarding the relationship between social determinants and academic performance.
3. To examine the role of inclusive educational practices in promoting academic success.
4. To identify research gaps and propose directions for future research and educational policy.

3. METHODOLOGY

This study adopted a thematic review methodology to synthesize existing evidence on social determinants affecting academic achievement among adolescents with visual impairment. Relevant literature published between 2021 and 2024 was retrieved from Scopus, Web of Science, ERIC**,** PubMed, and Google Scholar**.**
The search strategy employed combinations of keywords including:
- ✧ visual impairment
- ✧ academic achievement
- ✧ social determinants
- ✧ inclusive education
- ✧ teacher attitudes
- ✧ family support
- ✧ peer relationships
- ✧ social inclusion
- ✧ educational challenges

Only peer-reviewed empirical studies, systematic reviews, and scholarly reports published in English were included. The selected studies were analyzed through thematic coding, resulting in five major themes representing the most influential social determinants.

5. THEMATIC FINDINGS

Theme 1: Family Support and Educational Expectations
Literature consistently identifies family support as one of the strongest predictors of academic achievement. Parents who provide emotional encouragement, educational guidance, assistive learning resources, and advocacy contribute significantly to students' academic motivation and resilience. High parental expectations also foster independent learning and stronger academic engagement.
Theme 2: Peer Relationships and Sense of Belonging
Supportive peer relationships enhance classroom participation, collaboration, and emotional well-being. Students who experience acceptance and friendship demonstrate greater confidence and academic persistence. Conversely, bullying, discrimination, and social exclusion reduce motivation, self-esteem, and academic performance.
Theme 3: Teacher Attitudes and Inclusive Pedagogical Practices
Teachers play a central role in facilitating equitable learning opportunities. Positive teacher attitudes, professional competence in inclusive education, differentiated instruction, and effective use of assistive technologies significantly improve educational outcomes. Continuous professional development enables teachers to provide individualized support for learners with visual impairment.
Theme 4: Self-Esteem, Social Inclusion, and Academic Engagement
Self-esteem mediates the relationship between social support and academic achievement. Inclusive school environments that promote participation, respect, and equal opportunities enhance students' confidence, motivation, and engagement. In contrast, stigma and negative societal attitudes adversely affect both psychosocial development and educational achievement.
Theme 5: Educational challenges and inclusion
Adolescents with visual impairment often encounter several educational obstacles that interfere with their academic success. These challenges include limited access to learning materials, insufficient teacher preparation, social exclusion, poor classroom participation, and weak institutional support. This thematic

review explores the major educational barriers that influence academic performance among adolescents with visual impairment and emphasizes the importance of inclusive practices that promote equal learning opportunities.

Theme 6: Institutional Support and Accessible Learning Environments

Institutional factors such as accessible infrastructure, Braille resources, digital learning technologies, orientation and mobility training, rehabilitation services, and inclusive educational policies contribute substantially to academic success. Schools with well-developed support systems provide greater opportunities for equitable participation and learning.

6. THEMATIC SYNTHESIS

Across the reviewed literature, social determinants emerge as interconnected factors influencing academic achievement. Family involvement establishes a supportive learning foundation, peer acceptance promotes engagement, teacher competence enhances instructional quality, and institutional accessibility facilitates meaningful participation. These determinants collectively create inclusive educational environments that foster academic excellence and psychosocial well-being among adolescents with visual impairment.

7. DISCUSSION

The findings demonstrate that academic achievement among adolescents with visual impairment is not solely determined by individual ability but is deeply embedded within broader social contexts. Consistent with ecological and social inclusion frameworks, educational outcomes improve when families, teachers, peers, and educational institutions collaboratively support learners.

The review further highlights that effective inclusive education requires comprehensive interventions extending beyond classroom accommodation. Teacher professional development, accessible instructional materials, assistive technologies, positive peer cultures, and strong family-school partnerships are essential for reducing educational disparities. Future research should investigate the combined influence of psychosocial variables such as self-efficacy, resilience, academic motivation, and school climate using longitudinal and mixed methods designs.

8. IMPLICATIONS FOR EDUCATIONAL PRACTICE

The review suggests several practical implications:

- ✧ Strengthen family engagement through collaborative educational partnerships.
- ✧ Enhance teacher professional development in inclusive pedagogy.
- ✧ Expand access to Braille, digital, and assistive learning technologies.
- ✧ Foster peer mentoring and inclusive classroom participation.
- ✧ Improve institutional accessibility and rehabilitation services.
- ✧ Develop evidence-based policies promoting educational equity and social inclusion.

9. CONCLUSION

Academic achievement among adolescents with visual impairment is strongly influenced by multiple social determinants operating across family, school, peer, and institutional contexts. Family support, inclusive teaching, positive peer relationships, accessible educational resources, and supportive institutional policies collectively enhance learning outcomes and educational participation. Strengthening these determinants through coordinated educational reforms and interdisciplinary collaboration is essential for achieving equitable and inclusive education. Future research should adopt comprehensive theoretical frameworks to examine the interaction of psychosocial, educational, and environmental factors influencing academic success among learners with visual impairment.

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