**Short Research Article**

**THE CORRELATION BETWEEN TEACHER SUPPORT AND ACADEMIC SUCCESS OF HEARING–IMPAIRED LEARNERS IN PRIMARY SCHOOL**

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**Abstract**

This study examined the relationship between teacher support and academic success among hearing-impaired students in selected elementary schools in Davao Oriental, Philippines. Using a quantitative, descriptive-correlational research design, the study involved 102 teacher respondents from public and private schools offering inclusive or special education (SPED) programs. Data were collected using structured survey questionnaires measuring teacher support in terms of teacher-student relationship, emotional support and availability, and teacher perception. Academic success was assessed through self-perceived academic competence, academic challenges, and academic support-seeking behavior. Pearson’s Product-Moment Correlation was employed to analyze the results. Findings revealed that hearing-impaired students generally experienced very high levels of teacher support, especially in relational and emotional aspects. Teachers also expressed confidence in their students’ academic potential. However, instructional challenges persisted in terms of pacing, communication, and use of visual aids. Surprisingly, the correlation between teacher support and academic success was weak and statistically non-significant (r = 0.005), indicating that other contextual or instructional factors may have influenced student outcomes. The study affirmed the role of emotionally supportive teacher-student relationships but emphasized the need for enhanced teacher training, inclusive pedagogical strategies, and systemic support. It recommended institutional reforms in teacher preparation, curriculum design, and provision of tailored resources to support the needs of hearing-impaired learners in achieving inclusive and quality education (SDG 4).

*Keywords: teacher Support; academic success; selected municipalities of Davao Oriental, Philippines*

**Introduction**

Education has long been recognised as a basic human right and a cornerstone for societal development (United Nations, 1948). However, children with hearing impairments continue to face challenges in accessing quality education due to communication barriers and insufficiently tailored instructional strategies (Awino, 2020; Olusanya et al., 2019). The World Health Organisation (2025) reported that over 430 million individuals worldwide experience disabling hearing loss, many of whom are school-aged children.

Globally, hearing-impaired learners encounter academic hurdles stemming from limited resources, communication difficulties, and inadequate teacher preparation. While inclusive practices and assistive technologies have improved, these measures have not always translated into equitable educational outcomes. Teacher support—through differentiated instruction, emotional engagement, and effective communication—is considered a critical factor in bridging these educational gaps (Dubey & Hernwal, 2024).

In the Philippines, inclusive education policies such as Republic Act No. 7277 (Magna Carta for Disabled Persons), Republic Act No. 10533 (Enhanced Basic Education Act of 2013), and most recently, Republic Act No. 11650 (Inclusive Education Act) have aimed to provide equitable opportunities for learners with disabilities. These laws mandate that all schools accommodate learners with diverse needs and ensure that no student is denied access to quality education based on disability (Philippine News Agency, 2023). Nonetheless, gaps in implementation persist, particularly in public elementary schools, where challenges include insufficient training for teachers, limited teaching resources, and a lack of accessible infrastructure (Paga, 2023).

In Davao Oriental, schools mirror these national challenges. A study conducted at the Mati Special Education Center revealed that teachers often struggle to provide adequate academic support to hearing-impaired learners due to large class sizes, a shortage of teachers trained in special education, and limited access to sign language interpreters and hearing-assistive devices (Paga, 2023). Consequently, these learners remain at risk of lower academic performance, diminished self-esteem, and social exclusion.

This study aimed to determine the relationship between teacher support and the academic success of hearing-impaired learners in primary schools. The study hypothesized that there is no significant relationship between teacher support and academic success. This study was anchored on **Vygotsky’s Social Interaction Theory**, which emphasized that learning occurs through social communication and collaborative interactions.

FIG 1. Relationship between teacher support and the academic success



**Method**

 This study adopted a quantitative, descriptive research design. Descriptive research enabled researchers to systematically and accurately present the characteristics of a population, condition, or phenomenon (Dovetail Editorial Team, 2023). This study was used to outline the current state of teacher support provided to hearing-impaired learners in elementary schools, as well as their academic performance.

The correlational component examined the relationship between teacher support and academic achievement. Teacher support was measured in terms of teacher-student relationship, emotional support and availability, and perception of a teacher, through structured survey questionnaires administered to teachers. Academic success was evaluated through self-perceived academic competence, academic challenges, and academic support-seeking behaviour as permitted by school administrators.

This research design was appropriate for identifying existing patterns and relationships without manipulating variables, and it supported the investigation of whether teacher support was significantly associated with the academic success of hearing-impaired elementary students.

This study was conducted in the province of Davao Oriental, located in the southeastern part of Mindanao, Philippines. Specifically, the research took place in selected areas within the province, including the City of Mati and the municipalities of Lupon, Manay, Banaybanay, and Governor Generoso. These locations were chosen for their accessibility and the presence of special education (SPED) programs within their respective public schools.

From each of these areas, two SPED schools were selected to participate in the study. The inclusion of multiple schools from diverse localities within Davao Oriental allowed for a broader and more representative perspective on the level of teacher support provided to hearing-impaired learners in inclusive settings. This geographic coverage helped ensure that the findings reflected the educational realities and support structures available across different urban and rural contexts within the province.

This study utilized a total enumeration technique to identify 102 respondents who met specific criteria relevant to the research objectives. Total enumeration sampling, also referred to or known as complete enumeration or census sampling, was a non-probability sampling technique in which all members of the population were included in the study. This method was used when the population size was small, accessible, and manageable, making it feasible to study every unit without sampling. — Creswell, J. W. (2014). Research Design: Qualitative, Quantitative, and Mixed Methods Approaches. Unlike random sampling, which sought to achieve broad representation by minimizing bias through random selection, purposive sampling focused on selecting individuals who could provide the most meaningful and context-specific data.

In this study, the sample consisted of elementary-level teachers of hearing-impaired students from selected public and private schools. These institutions offered inclusive or special education programs with established systems supporting learners with hearing impairments. Meanwhile, the teachers had at least one year of experience in handling hearing-impaired learners and were actively engaged in their instruction.

This study utilized an adapted survey questionnaire as the primary instrument for collecting data on two main variables: the level of teacher support for hearing-impaired learners and their overall academic success. The questionnaire consisted of closed-ended items measured on a Likert scale, focusing on various dimensions such as instructional practices, classroom accommodations, visual support usage, and the frequency and perceived effectiveness of teacher interventions for hearing-impaired students in inclusive settings.

The study employed questionnaires for the teachers. The questionnaires contained 54 items, distributed across two major variables. The teacher support variable included 27 items across three indicators: Teacher-Student Relationship, Emotional Support and Availability, and Perception of the Teacher. The academic success variable included 27 items grouped under Self-Perceived Academic Competence, Academic Challenges, and Academic Support-Seeking Behaviour.

The data collected through the survey questionnaires were analyzed using quantitative statistical techniques to explore the relationship between the level of teacher support and the academic success of hearing-impaired learners in primary school settings.

Descriptive statistics—including frequencies, means, and standard deviations—were used to summarize demographic data and the distribution of responses for each item. This method allowed researchers to present a clear and systematic summary of observed variables in the study population (Creswell, 2017).

Pearson's Product-Moment Correlation Coefficient was employed to examine the strength and direction of the relationship between the variables. This parametric test was appropriate for evaluating linear associations between two continuous variables and was widely applied in educational and behavioral research contexts. A significance level of 0.05 was used to determine the statistical significance of the observed correlations (Schneider, 2010).

In conducting this study on the correlation between teacher support and the academic success of hearing-impaired learners, ethical integrity was of paramount importance. All participating teachers were provided with detailed information about the purpose, procedures, potential risks, and benefits of the study. Participation was entirely voluntary, and written informed consent was obtained before data collection. All data collected were treated with strict confidentiality. Participants’ identities, as well as the names of schools or institutions involved, were not disclosed in any report or publication arising from the study.

 **Results**

This chapter presented the findings of the study on the relationship between teacher support and academic success among hearing-impaired students. The data were organized according to the two major variables of the study—teacher support and academic success. Each variable was divided into relevant subcategories to allow a more focused interpretation of the results. The findings were presented in tabular form followed by a narrative discussion and a summary.

TABLE 1. **List of variables and Their Indicators**

|  |  |  |  |
| --- | --- | --- | --- |
| **Variables and Their Indicators** | **Standard Deviation** | **Mean** | **Verbal Description** |
| **Teacher Support** | **1.05** | **2.72** | **High** |
|  Teacher-Student Relationship | 0.64 | 3.47 | Very High |
|  Emotional Support and Availability | 0.98 | 2.30 | High |
|  Perception of the Teacher | 1.14 | 2.76 | High |
| **Academic Success** | **0.72** | **3.47** | **Very High** |
|  Self-Perceived Academic Competence | 0.52 | 3.64 | Very High |
|  Academic Challenges | 0.86 | 3.36 | High |
|  Academic Support-Seeking Behaviour | 0.61 | 2.45 | High |

The Standard deviations and verbal interpretations for each of the main variables and their respective indicators. The table showed that the overall mean score for teacher support is 2.72, which falls under the verbal interpretation of "High," with a standard deviation of 1.05. Among the three indicators of teacher support, teacher-student relationship received the highest mean score of 3.47 (Very High), followed by perception of the teacher with a mean of 2.76 (High), and emotional support and availability with a mean of 2.30 (High).

The overall mean score for academic success is 3.47, which was interpreted as "Very High," with a standard deviation of 0.72. Among its indicators, self-perceived academic competence yielded the highest mean of 3.64 (Very High), followed by academic challenges with a mean of 3.36 (High) and academic support-seeking behaviour with a mean of 2.45 (High).

TABLE 2. Academic support-seeking behavior

|  |  |
| --- | --- |
| **Independent Variable** | **Academic Success** |
| **r-value** | **p-value** | **Decision on Ho** | **Interpretation** |
| **Teacher Support** | 0.005 | 0.96 | Accept | Not Significant |

A Pearson Product-Moment Correlation was conducted to determine the relationship between teacher support and academic success among hearing-impaired students. The analysis yielded a correlation coefficient of r = 0.005, with a p-value of 0.96. This result indicated a very weak positive correlation between the two variables. Given that the p-value exceeds the 0.05 level of significance, the null hypothesis is retained. Therefore, there was no statistically significant relationship between teacher support and academic success among hearing-impaired students in this study.

The statistical analysis revealed that the computed r-value of 0.005 indicated a very weak correlation between teacher support and academic success. The corresponding p-value of 0.96 was greater than the significance level, leading to the decision to accept the null hypothesis. Therefore, the relationship between teacher support and academic success was not statistically significant. Despite the high mean scores reported for both teacher support and academic success, the lack of statistical significance suggested that other factors may influence academic success among hearing-impaired students outside of teacher support as measured in this study.

**Discussions**

The findings indicate that hearing-impaired students perceive a high level of teacher support, particularly in areas such as teacher-student relationships, emotional support, and teacher perception. This suggests that inclusive educational settings are making strides in fostering supportive environments for these students. Recent studies emphasise the importance of such support; for instance, Cheng et al. (2021) found that higher levels of social support in schools are associated with increased student engagement among deaf and HI students. Additionally, Bali (2023) highlighted the effectiveness of visual teaching materials in enhancing the engagement of hearing-impaired pupils in inclusive classrooms. These insights underscore the need for continued emphasis on teacher training and the development of inclusive teaching materials to further support hearing-impaired students.

Despite the positive perceptions of both teacher support and academic success, the lack of a statistically significant relationship between these variables suggests that other factors may be influencing academic outcomes for hearing-impaired students. Research by Muitu et al. (2024) indicates that peer tutoring and brainstorming strategies can significantly improve the academic performance of students with hearing impairments, suggesting that peer interactions play a crucial role in academic success. Furthermore, Aldawoud (2025) emphasises the importance of research-based practices to increase peer interaction among children with hearing impairment, highlighting that social interventions and multifaceted training can enhance peer relationships and, consequently, academic outcomes. These findings point to the importance of a holistic approach to supporting hearing-impaired students, one that extends beyond teacher support to include peer engagement and the broader school culture.

CONCLUSION

This study concluded that there was no statistically significant relationship between teacher support and the academic success of hearing-impaired students. Although both variables yielded high mean ratings, the correlation analysis suggested that the perceived presence of teacher support was not independently influencing academic success within the sample group. As such, the findings do not support the assumptions of Vygotsky’s Social Interaction Theory in this context. The anticipated scaffolding effect, wherein teacher-student interaction enhanced cognitive development and academic performance, was not statistically observed. Instead, the results pointed toward a multifaceted educational environment in which academic outcomes were influenced by a broader spectrum of interacting factors beyond teacher support alone. This complexity warrants further inquiry into complementary domains that may better explain academic success among hearing-impaired learners.

In light of the findings, it was recommended that educational institutions strengthen their inclusive education frameworks by institutionalising teacher training programs focused on deaf education and differentiated instruction. Teachers should be equipped with multimodal, linguistically accessible strategies—including visual aids, Filipino Sign Language (FSL), captioned content, and assistive devices—to address the diverse needs of hearing-impaired students. Curricular materials must also be reviewed to ensure adaptability to the communication and cognitive profiles of these learners. Moreover, inclusive education policies must go beyond compliance and aim for genuine engagement by incorporating systemic support structures that involve families, peers, and community-based resources. Collaboration among educators, administrators, policymakers, and advocacy groups was essential to develop sustainable and culturally responsive educational practices. For future researchers, the lack of a statistically significant correlation in this study highlighted the need to explore additional or intersecting variables that may better account for academic success among hearing-impaired students. These may include learner self-efficacy, family involvement, classroom accessibility, socioeconomic background, institutional support systems, and student motivation. Researchers were also encouraged to employ mixed-methods approaches to capture both quantitative trends and qualitative insights into the lived experiences of hearing-impaired learners, while longitudinal studies may provide a clearer understanding of how support structures influence academic trajectories over time. By approaching future investigations with a more holistic and multidimensional lens, scholars and educators can better contribute to building inclusive, effective, and empowering learning environments for all.

**COMPETING INTERESTS DISCLAIMER:**

Authors have declared that they have no known competing financial interests OR non-financial interests OR personal relationships that could have appeared to influence the work reported in this paper.

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