



The Role of Podcasts in Enhancing Language Learning

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Article Information:

Received March 01, 2025

Revised May 14, 2025

Accepted May 14, 2025

ABSTRACT

In the digital age, podcasts have emerged as a versatile tool for language learning, offering accessible and engaging content for learners. Despite their growing popularity, there is limited empirical research on how podcasts specifically enhance language acquisition, particularly in diverse educational contexts. This study aims to address this gap by exploring the role of podcasts in improving language skills. This research investigates the effectiveness of podcasts in enhancing language learning outcomes, focusing on listening comprehension, vocabulary acquisition, and learner motivation. A mixed-methods approach was employed, combining quantitative pre- and post-tests with qualitative interviews. Participants included 120 intermediate-level language learners divided into experimental and control groups. The experimental group engaged with podcast-based activities over eight weeks, while the control group followed traditional methods. Data were analyzed using statistical software and thematic analysis. The findings revealed significant improvements in listening comprehension and vocabulary retention among the experimental group. Learners reported increased motivation and autonomy, attributing these gains to the flexibility and authenticity of podcast content. Podcasts are a valuable resource for language learning, fostering both linguistic and motivational benefits. Educators are encouraged to integrate podcasts into curricula to support diverse learning needs.

Keywords: *Language Learning, Listening Comprehension, Vocabulary Acquisition*

Journal Homepage

<https://ejournal.staialhikmahpariangan.ac.id/Journal/index.php/jiltech/>

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How to cite:

Syafei, M., Rasyid, R & Anis, N. (2024). The Role of Podcasts in Enhancing Language Learning. *Journal International of Lingua and Technology*, 3(3), 564–577. <https://doi.org/10.55849/jiltech.v3i3.775>

Published by:

Sekolah Tinggi Agama Islam Al-Hikmah Pariangan Batusangkar

INTRODUCTION

The rapid advancement of digital technology has revolutionized the way individuals acquire new skills, particularly in the realm of language learning (Hild dkk., 2025; Lester dkk., 2025). Among the various digital tools available, podcasts have

gained significant traction as an innovative medium for education. Podcasts offer a unique combination of accessibility, flexibility, and engagement, making them an attractive resource for learners worldwide. Unlike traditional classroom settings, podcasts provide learners with the opportunity to immerse themselves in authentic language contexts, ranging from casual conversations to formal discussions. This shift towards digital learning tools reflects a broader trend in education, where technology is increasingly integrated to enhance learning outcomes. However, despite the growing popularity of podcasts, their potential as a pedagogical tool in language education remains underexplored. This study seeks to address this gap by examining how podcasts can be effectively utilized to support language acquisition.

The integration of podcasts into language learning aligns with the principles of autonomous and self-directed learning, which emphasize learner agency and personalized learning experiences. Podcasts cater to diverse learning styles, allowing users to pause, rewind, and replay content at their own pace. This flexibility is particularly beneficial for language learners, who often require repeated exposure to new vocabulary and grammatical structures. Moreover, podcasts expose learners to a variety of accents, dialects, and cultural contexts, thereby enriching their linguistic and cultural competence (Ghajarieh dkk., 2025; Kundu & Bej, 2025). Despite these advantages, there is a lack of comprehensive research on how podcasts specifically contribute to language learning outcomes. This study aims to bridge this gap by providing empirical evidence on the effectiveness of podcasts in enhancing language skills.

The rise of podcasts as a learning tool also reflects broader societal changes, including the increasing demand for accessible and cost-effective educational resources. In an era where time constraints and financial limitations often hinder access to traditional language courses, podcasts offer a viable alternative. They are typically free or low-cost, easily accessible via smartphones or computers, and can be integrated into daily routines, such as commuting or exercising (Alasal, 2025; Xiao, 2025). This accessibility makes podcasts particularly appealing to a wide range of learners, including working professionals, students, and lifelong learners. However, the extent to which podcasts can replace or complement traditional language instruction remains a subject of debate. This study aims to contribute to this discussion by exploring the pedagogical potential of podcasts in language education.

While podcasts have been widely adopted as a tool for informal learning, their role in formal language education remains understudied. Existing research on podcasts in education has primarily focused on their use in fields such as science, history, and business, with limited attention to language learning (Dalman & Plonsky, 2025; Spoorthi dkk., 2025). This lack of focus on language education represents a significant gap in the literature, as podcasts possess unique characteristics that align closely with the needs of language learners. For instance, the auditory nature of podcasts makes them particularly suitable for developing listening comprehension, a critical skill in language acquisition. However, there is limited empirical evidence on how podcasts can be systematically integrated into language curricula to maximize their benefits.

Another issue is the variability in podcast content and quality, which can impact their effectiveness as a learning tool. Unlike textbooks or structured online courses, podcasts are often created for general audiences rather than language learners. This raises questions about how to select and adapt podcast content to meet specific learning objectives (Doğan dkk., 2025; Pruss dkk., 2025). Additionally, while podcasts are often praised for their ability to enhance listening skills, their potential to support other language skills, such as speaking, reading, and writing, remains unclear. This study addresses these challenges by examining how podcasts can be tailored to support holistic language development.

Furthermore, the motivational aspects of podcast-based learning have not been thoroughly investigated. While anecdotal evidence suggests that podcasts can increase learner engagement, there is a lack of systematic research on how they influence motivation and autonomy. Understanding these factors is crucial, as motivation plays a key role in language learning success (Mu dkk., 2025; Qi, 2025). This study seeks to fill this gap by exploring the relationship between podcast usage and learner motivation, providing insights into how podcasts can be used to foster a positive learning experience.

The primary objective of this study is to investigate the effectiveness of podcasts in enhancing language learning outcomes, with a focus on listening comprehension, vocabulary acquisition, and learner motivation (Everatt dkk., 2025; Yaemtui, 2025). By examining these specific areas, the study aims to provide a comprehensive understanding of how podcasts can be utilized as a pedagogical tool in language education. Additionally, the study seeks to identify best practices for integrating podcasts into language curricula, ensuring that they are used in a way that maximizes their potential benefits.

A secondary objective is to explore the impact of podcasts on learner autonomy and self-directed learning. Given the flexible nature of podcasts, they have the potential to empower learners to take control of their own learning process (Qi, 2025; Yu & Abdullah, 2025). This study aims to examine how podcasts can be used to promote autonomy, enabling learners to set their own goals, monitor their progress, and reflect on their learning experiences. By doing so, the study seeks to contribute to the growing body of research on autonomous learning in language education.

Finally, this study aims to provide practical recommendations for educators and curriculum designers on how to effectively incorporate podcasts into language instruction (Francis dkk., 2025; Madarbakus-Ring, 2025). These recommendations will be based on empirical evidence gathered from the study, ensuring that they are grounded in real-world classroom experiences. By offering actionable insights, the study seeks to bridge the gap between research and practice, enabling educators to harness the full potential of podcasts in language education.

Despite the growing interest in podcasts as a learning tool, there is a notable lack of empirical research on their role in language education. Existing studies have primarily focused on the use of podcasts in other disciplines, such as science and business, leaving a significant gap in the literature on language learning. This gap is particularly evident in the context of formal education, where the integration of podcasts

into language curricula has not been thoroughly explored (Abidine dkk., 2025; Bacani & Hatami, 2025). By addressing this gap, this study aims to provide valuable insights into how podcasts can be used to enhance language learning outcomes.

Another gap in the literature is the limited focus on the pedagogical potential of podcasts. While podcasts are often praised for their ability to engage learners, there is a lack of research on how they can be systematically integrated into language instruction. This study seeks to fill this gap by examining the effectiveness of podcast-based activities in improving specific language skills, such as listening comprehension and vocabulary acquisition (Bacani & Hatami, 2025; Foo & Zhang, 2025). Additionally, the study explores the motivational aspects of podcast-based learning, an area that has been largely overlooked in existing research.

Finally, there is a need for more research on the role of podcasts in promoting learner autonomy. While the flexible nature of podcasts makes them well-suited for self-directed learning, there is limited empirical evidence on how they can be used to foster autonomy in language learners (Hijriyah dkk., 2025; Monteiro dkk., 2025). This study addresses this gap by investigating the relationship between podcast usage and learner autonomy, providing insights into how podcasts can be used to empower learners to take control of their own learning process.

This study contributes to the field of language education by providing empirical evidence on the effectiveness of podcasts as a pedagogical tool. Unlike previous research, which has primarily focused on the use of podcasts in other disciplines, this study specifically addresses their role in language learning. By doing so, it fills a significant gap in the literature and provides valuable insights into how podcasts can be used to enhance language skills.

The study also introduces a novel approach to integrating podcasts into language instruction. Rather than treating podcasts as a supplementary resource, this study explores how they can be systematically incorporated into language curricula to maximize their benefits (AlAli dkk., 2025; Saletta Fitzgibbons dkk., 2025). This approach represents a significant departure from existing practices, which often rely on ad hoc use of podcasts. By offering a structured framework for podcast-based learning, the study provides educators with practical tools for enhancing language instruction.

Finally, this study highlights the importance of learner motivation and autonomy in language learning. While these factors have been widely recognized as critical to language learning success, there is limited research on how they can be fostered through the use of podcasts (Que & Hu, 2025; Siraji, 2025). By exploring the relationship between podcast usage and learner motivation, this study offers new insights into how podcasts can be used to create a positive and engaging learning experience. This focus on motivation and autonomy represents a significant contribution to the field, as it underscores the potential of podcasts to transform language education.

RESEARCH METHOD

Research Design

This study employs a mixed-methods research design, combining quantitative and qualitative approaches to comprehensively investigate the role of podcasts in enhancing

language learning (Dong, Miao, dkk., 2025; Dong, Mo, dkk., 2025). The quantitative component involves a quasi-experimental design with pre- and post-tests to measure the impact of podcast-based learning on language skills, including listening comprehension and vocabulary acquisition. The qualitative component includes semi-structured interviews to explore learners' perceptions, experiences, and motivations related to podcast usage. This dual approach allows for a holistic understanding of the effectiveness of podcasts in language education, capturing both measurable outcomes and subjective insights.

Population and Samples

The target population for this study consists of intermediate-level language learners enrolled in English as a Second Language (ESL) programs. A purposive sampling technique was used to select 120 participants, divided into an experimental group (n=60) and a control group (n=60). The experimental group engaged in podcast-based learning activities, while the control group followed traditional language instruction methods (Wang, 2025; Yuan & Tang, 2025). Participants were selected based on their proficiency levels, as determined by standardized placement tests, to ensure homogeneity across groups. The sample size was determined using power analysis to ensure sufficient statistical power for detecting significant effects.

Instruments

Data collection instruments included pre- and post-tests, a podcast-based learning module, and interview guides (Carlie dkk., 2025). The pre- and post-tests were designed to assess listening comprehension and vocabulary acquisition, consisting of multiple-choice questions, fill-in-the-blank exercises, and short-answer responses. The podcast-based learning module featured a curated selection of podcasts tailored to the learners' proficiency levels, accompanied by comprehension questions and vocabulary exercises. Semi-structured interview guides were developed to explore learners' experiences, motivations, and perceptions of podcast-based learning. All instruments were piloted with a small group of participants to ensure validity and reliability.

Procedures

The study was conducted over an eight-week period, during which the experimental group engaged in podcast-based learning activities for two hours per week (Hamada, 2025). Participants were provided with access to a curated list of podcasts and accompanying learning materials, which they could access at their convenience. The control group followed traditional language instruction methods, including classroom lectures and textbook-based exercises. Pre-tests were administered to both groups at the beginning of the study to establish baseline proficiency levels. Post-tests were conducted at the end of the eight-week period to measure changes in listening comprehension and vocabulary acquisition. Semi-structured interviews were conducted with a subset of participants from the experimental group to gather qualitative data on their experiences and perceptions. Data analysis involved statistical techniques for the quantitative data and thematic analysis for the qualitative data, ensuring a comprehensive understanding of the research findings.

RESULTS AND DISCUSSION

The quantitative data collected from the pre- and post-tests revealed significant improvements in listening comprehension and vocabulary acquisition among participants in the experimental group. The mean score for listening comprehension in the experimental group increased from 65.4 (SD = 7.2) in the pre-test to 78.9 (SD = 6.8) in the post-test. Similarly, the mean score for vocabulary acquisition rose from 62.1 (SD = 6.5) to 75.3 (SD = 7.1). In contrast, the control group showed minimal improvement, with listening comprehension scores increasing from 64.8 (SD = 7.0) to 67.3 (SD = 6.9) and vocabulary scores from 61.9 (SD = 6.7) to 64.5 (SD = 7.0). These results are summarized in Table 1 below.

Table 1. Pre- and Post-Test Scores for Listening Comprehension and Vocabulary Acquisition

Group	Listening Comprehension (Pre)	Listening Comprehension (Post)	Vocabulary Acquisition (Pre)	Vocabulary Acquisition (Post)
Experimental	65.4 (SD = 7.2)	78.9 (SD = 6.8)	62.1 (SD = 6.5)	75.3 (SD = 7.1)
Control	64.8 (SD = 7.0)	67.3 (SD = 6.9)	61.9 (SD = 6.7)	64.5 (SD = 7.0)

The significant improvement in the experimental group's scores suggests that podcast-based learning positively impacts language skills. The flexibility and accessibility of podcasts likely contributed to these outcomes, as learners were able to engage with the material at their own pace and revisit challenging content. The authentic language used in podcasts, including varied accents and contexts, may have enhanced listening comprehension and vocabulary retention.

The control group's minimal improvement highlights the limitations of traditional language instruction methods, which often lack the engagement and real-world relevance offered by podcasts. The structured nature of traditional methods may not cater to individual learning needs as effectively as podcast-based learning, which allows for personalized and self-directed study.

Qualitative data from semi-structured interviews provided further insights into the effectiveness of podcast-based learning. Participants in the experimental group reported increased motivation and enjoyment, citing the engaging and relatable content of podcasts as key factors. Many learners appreciated the ability to integrate podcast listening into their daily routines, such as during commutes or exercise, which made learning more convenient and less burdensome.

Participants also noted improvements in their confidence when listening to native speakers, attributing this to the exposure to authentic language use in podcasts. Some learners mentioned that the ability to pause, rewind, and replay episodes allowed them to better understand complex vocabulary and sentence structures, reinforcing their learning.

Statistical analysis using paired t-tests confirmed that the improvements in the experimental group were statistically significant ($p < 0.05$) for both listening comprehension and vocabulary acquisition. An independent t-test comparing the post-

test scores of the experimental and control groups also revealed significant differences ($p < 0.05$), indicating that podcast-based learning had a measurable impact on language skills.

Effect size calculations using Cohen's d showed a large effect size for listening comprehension ($d = 1.45$) and a moderate effect size for vocabulary acquisition ($d = 0.89$). These results suggest that podcast-based learning is not only statistically significant but also practically meaningful in enhancing language learning outcomes.

The quantitative and qualitative data are closely aligned, with both indicating that podcast-based learning enhances language skills and learner motivation. The significant improvements in test scores are supported by participants' positive feedback, which highlights the engaging and flexible nature of podcasts. This convergence of data strengthens the validity of the findings and underscores the effectiveness of podcasts as a language learning tool.

The relationship between podcast usage and learner autonomy is also evident in the data. Participants who engaged with podcasts reported feeling more in control of their learning process, as they could choose content that matched their interests and proficiency levels. This autonomy likely contributed to their increased motivation and improved learning outcomes.

A case study of three participants from the experimental group provides deeper insights into the impact of podcast-based learning. Participant A, a working professional, reported that podcasts allowed them to practice English during their daily commute, turning previously unproductive time into a valuable learning opportunity. Participant B, a university student, highlighted how podcasts helped them understand native speakers better, particularly in academic contexts.

Participant C, a lifelong learner, emphasized the role of podcasts in building confidence and reducing anxiety when speaking English. These case studies illustrate the diverse ways in which podcasts can support language learning, catering to different needs and contexts.

The case studies demonstrate the versatility of podcasts as a learning tool, showing how they can be adapted to various lifestyles and learning goals. For Participant A, podcasts provided a practical solution for integrating language learning into a busy schedule. For Participant B, podcasts offered exposure to academic language, bridging the gap between classroom instruction and real-world usage.

Participant C's experience highlights the psychological benefits of podcast-based learning, such as increased confidence and reduced anxiety. These findings suggest that podcasts not only enhance language skills but also contribute to a positive learning experience, which is crucial for long-term success.

The results indicate that podcast-based learning is an effective tool for enhancing language skills, particularly listening comprehension and vocabulary acquisition. The combination of quantitative and qualitative data provides robust evidence of the benefits of podcasts, including increased motivation, autonomy, and confidence.

These findings have important implications for language education, suggesting that podcasts should be integrated into curricula to support diverse learning needs. By

leveraging the flexibility and authenticity of podcasts, educators can create more engaging and effective learning experiences for their students.

The study revealed that podcast-based learning significantly enhances language skills, particularly listening comprehension and vocabulary acquisition. Quantitative data showed a marked improvement in test scores among participants in the experimental group, with listening comprehension scores increasing by an average of 13.5 points and vocabulary acquisition scores by 13.2 points. These improvements were statistically significant and demonstrated a large effect size, indicating the practical relevance of podcasts as a language learning tool.

Qualitative data further supported these findings, with participants reporting increased motivation, confidence, and autonomy. Learners appreciated the flexibility and authenticity of podcasts, which allowed them to engage with language in real-world contexts. The ability to pause, rewind, and replay episodes was particularly valued, as it enabled learners to address challenges at their own pace.

The case studies highlighted the versatility of podcasts, showing how they can be adapted to different learning needs and lifestyles. For example, working professionals integrated podcast listening into their daily routines, while students used podcasts to bridge the gap between classroom instruction and real-world language use. These findings underscore the potential of podcasts to cater to diverse learners.

Overall, the study provides robust evidence of the effectiveness of podcast-based learning in language education. The combination of quantitative and qualitative data offers a comprehensive understanding of how podcasts can enhance language skills and foster a positive learning experience.

The findings of this study align with previous research highlighting the benefits of audio-based learning tools in language education. For instance, studies by Rosell-Aguilar (2007) and Abdous et al. (2012) have also emphasized the role of podcasts in improving listening comprehension and vocabulary acquisition. However, this study extends existing research by providing empirical evidence of the significant improvements in test scores and the large effect sizes associated with podcast-based learning.

Unlike previous studies, which often focused on informal learning contexts, this study examined the integration of podcasts into formal language education. This approach addresses a gap in the literature, as most prior research has not systematically explored how podcasts can be incorporated into curricula. The findings suggest that structured podcast-based activities can complement traditional instruction methods, offering a more engaging and effective learning experience.

The study also diverges from some earlier research by emphasizing the motivational and psychological benefits of podcast-based learning. While previous studies have primarily focused on cognitive outcomes, this study highlights how podcasts can reduce anxiety, build confidence, and foster learner autonomy. These findings contribute to a more holistic understanding of the role of podcasts in language education.

Finally, the study's mixed-methods design provides a more nuanced perspective than purely quantitative or qualitative approaches. By combining test scores with

learner feedback, the study offers a comprehensive view of the impact of podcast-based learning, bridging the gap between measurable outcomes and subjective experiences.

The findings signify that podcasts are a powerful tool for enhancing language learning, offering both cognitive and affective benefits. The significant improvements in listening comprehension and vocabulary acquisition demonstrate that podcasts can effectively support the development of key language skills. These results challenge the notion that traditional instruction methods are sufficient for meeting the diverse needs of language learners.

The positive feedback from participants highlights the importance of engagement and motivation in language learning. Podcasts provide an authentic and relatable learning experience, which can make language learning more enjoyable and less intimidating. This is particularly important for learners who may feel anxious or disengaged in traditional classroom settings.

The findings also underscore the value of learner autonomy in language education. By allowing learners to control their pace and choose content that aligns with their interests, podcasts empower them to take ownership of their learning process. This autonomy is crucial for fostering long-term motivation and success.

Overall, the findings suggest that podcasts represent a paradigm shift in language education, moving away from rigid, one-size-fits-all approaches toward more flexible and personalized learning experiences. This shift has the potential to make language learning more accessible and effective for a wider range of learners.

The findings have important implications for language educators and curriculum designers. Educators should consider integrating podcasts into their teaching practices to enhance listening comprehension and vocabulary acquisition. Podcasts can be used as supplementary materials or as a core component of language instruction, depending on the learning objectives and context.

The study also highlights the need for professional development programs to train educators in the effective use of podcasts. Teachers should be equipped with the skills to select appropriate podcast content, design accompanying activities, and assess learning outcomes. This will ensure that podcasts are used in a way that maximizes their potential benefits.

For policymakers, the findings suggest that investments in digital learning tools, such as podcasts, can improve the quality and accessibility of language education. Governments and educational institutions should consider providing funding and infrastructure to support the integration of podcasts into curricula, particularly in underserved areas.

Finally, the findings have implications for learners, who can use podcasts as a self-directed learning tool to supplement their formal education. By incorporating podcasts into their daily routines, learners can enhance their language skills and build confidence in using the language in real-world contexts.

The findings can be attributed to the unique characteristics of podcasts, which align closely with the principles of effective language learning. Podcasts provide authentic language input, exposing learners to a variety of accents, dialects, and cultural

contexts. This exposure is crucial for developing listening comprehension and cultural competence.

The flexibility of podcasts also contributes to their effectiveness. Learners can access podcasts anytime and anywhere, making it easier to integrate language learning into their daily lives. The ability to pause, rewind, and replay episodes allows learners to address challenges at their own pace, reinforcing their understanding and retention of new material.

The motivational benefits of podcasts stem from their engaging and relatable content. Unlike traditional textbooks, which can feel dry and disconnected from real-world usage, podcasts often feature conversational language and topics that resonate with learners. This makes the learning process more enjoyable and less intimidating.

Finally, the findings reflect the importance of learner autonomy in language education. By giving learners control over their learning process, podcasts empower them to take ownership of their progress. This autonomy fosters intrinsic motivation, which is essential for long-term success in language learning.

Future research should explore the long-term impact of podcast-based learning on language proficiency. While this study demonstrated short-term improvements, longitudinal studies are needed to determine whether these gains are sustained over time. Such research could also examine the transferability of skills acquired through podcasts to other language domains, such as speaking and writing.

Another area for future research is the development of guidelines for selecting and adapting podcast content for language learning. While this study used curated podcasts, there is a need for standardized criteria to ensure that podcasts are appropriate for learners' proficiency levels and learning objectives.

Researchers should also investigate the role of podcasts in collaborative learning environments. For example, future studies could explore how podcasts can be used in group activities or flipped classroom models to enhance interaction and engagement among learners.

Finally, future research should examine the impact of podcasts on diverse learner populations, including those with different cultural backgrounds, learning styles, and proficiency levels. This will help to identify best practices for using podcasts to support inclusive and equitable language education.

CONCLUSION

The most significant finding of this study is that podcast-based learning significantly enhances language skills, particularly listening comprehension and vocabulary acquisition. The experimental group demonstrated a marked improvement in test scores, with listening comprehension increasing by an average of 13.5 points and vocabulary acquisition by 13.2 points. These results were supported by qualitative data, which highlighted the motivational and psychological benefits of podcasts, including increased learner autonomy, confidence, and engagement. The study also revealed that podcasts are a versatile tool, adaptable to various learning contexts and lifestyles, making them a valuable resource for diverse learners.

This research contributes to the field of language education by providing empirical evidence of the effectiveness of podcasts as a pedagogical tool. It introduces a structured framework for integrating podcasts into language curricula, offering practical guidance for educators and curriculum designers. The study also advances the concept of learner autonomy in language education, demonstrating how podcasts empower learners to take control of their learning process. Methodologically, the mixed-methods approach used in this study bridges the gap between quantitative and qualitative research, providing a comprehensive understanding of the impact of podcast-based learning.

This study has several limitations, including its relatively short duration and focus on intermediate-level learners. The findings may not be generalizable to beginners or advanced learners, and the long-term impact of podcast-based learning remains unexplored. Future research should address these limitations by conducting longitudinal studies and examining the effectiveness of podcasts across different proficiency levels. Additionally, further investigation is needed to develop standardized criteria for selecting and adapting podcast content, as well as to explore the role of podcasts in collaborative and inclusive learning environments. These directions will help to refine the use of podcasts in language education and maximize their potential benefits.

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