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## THE ROLE OF PRACTICAL TRAINING IN THE DEVELOPMENT OF SPECIAL COMPETENCIES FOR FUTURE SPEECH THERAPISTS

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## РОЛЬ ПРОИЗВОДСТВЕННОЙ ПРАКТИКИ В ФОРМИРОВАНИИ СПЕЦИАЛЬНЫХ КОМПЕТЕНЦИЙ БУДУЩИХ ЛОГОПЕДОВ

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*Abstract.* The article examines the importance of practical training in the educational training of future speech therapists. Various forms of practical training, such as laboratory work, clinical practice and simulation training, and their impact on the development of special competencies are analyzed. Special attention is paid to the integration of theoretical knowledge and practical skills, as well as the development of professional thinking and independence of students. The results of an empirical study confirming the effectiveness of practical training in the formation of skills necessary for the successful professional activity of speech therapists are presented. The conclusions of the article emphasize the need to strengthen the practical component in educational programs for the training of highly qualified specialists in the field of speech therapy.

*Аннотация.* В статье рассматривается значение практического обучения в образовательной подготовке будущих логопедов. Анализируются различные формы практического обучения, такие как лабораторные работы, клиническая практика и симуляционное обучение, и их влияние на развитие специальных компетенций. Особое внимание уделяется интеграции теоретических знаний и практических навыков, а также развитию профессионального мышления и самостоятельности студентов. Представлены результаты эмпирического исследования, подтверждающие эффективность практического обучения в формировании навыков, необходимых для успешной профессиональной деятельности логопедов. В выводах статьи подчеркивается необходимость усиления практического компонента в образовательных программах по подготовке высококвалифицированных специалистов в области логопедии.

*Keywords:* practical exercises, special competencies, speech therapists, educational training, clinical practice, professional skills, theoretical knowledge, simulation trainings.

*Ключевые слова:* практические занятия, специальные компетенции, логопеды, педагогическая подготовка, клиническая практика, профессиональные навыки, теоретические знания, симуляционные тренинги.

The development of specialized competencies in future speech therapists is a critical aspect of their professional training. Practical training plays a significant role in bridging the gap between theoretical knowledge and real-world application, ensuring that students acquire the necessary skills

to perform effectively in their professional roles. The integration of practical exercises, clinical practice, and simulation training is essential for fostering these competencies [8].

Practical training provides students with hands-on experience, allowing them to apply theoretical concepts in a controlled environment. This approach not only enhances their understanding but also builds their confidence and proficiency in handling various speech and language disorders. According to recent studies, students who undergo extensive practical training exhibit higher levels of competency and readiness for professional practice compared to those who rely solely on theoretical instruction [3].

Clinical practice, in particular, is a cornerstone of speech therapy education. It offers students the opportunity to work directly with clients under the supervision of experienced professionals. This real-world exposure is invaluable in helping students develop critical thinking, problem-solving skills, and the ability to adapt to diverse client needs. Research indicates that clinical practice significantly contributes to the development of practical skills and professional behavior in speech therapy students [4].

Simulation training is another effective method for developing specialized competencies. It provides a safe and controlled environment where students can practice their skills without the risk of causing harm. Simulation exercises are designed to mimic real-life scenarios, allowing students to practice assessment, diagnosis, and intervention techniques. Studies have shown that simulation training enhances students' clinical skills and prepares them for the complexities of actual clinical practice [5].

The role of practical training in speech therapy education cannot be overstated. It is through these practical experiences that students transition from theoretical learners to competent professionals. This article aims to explore the various forms of practical training used in speech therapy education, evaluate their effectiveness in developing specialized competencies, and provide recommendations for enhancing practical training programs.

#### *Methodology*

The methodology for this study involves a mixed-methods approach, combining quantitative and qualitative data to provide a comprehensive understanding of the role of practical training in developing specialized competencies among future speech therapists. The study was conducted over a period of one academic year at a university with a well-established speech therapy program. The research design includes three primary components: participant selection, data collection, and data analysis.

#### *Participant Selection*

Participants for this study were selected from students enrolled in the speech therapy program at XYZ University. A total of 60 students, representing all academic years, were chosen using stratified random sampling to ensure a balanced representation of different levels of education and experience. The participants were divided into two groups: an experimental group, which received enhanced practical training, and a control group, which followed the standard curriculum.

#### *Data Collection*

Data collection involved three main instruments: pre- and post-intervention assessments, observation checklists, and semi-structured interviews.

*Pre- and Post-Intervention Assessments:* To measure the development of specialized competencies, participants were assessed before and after the intervention using a standardized competency assessment tool. This tool, developed by the American Speech-Language-Hearing Association (ASHA), evaluates key competencies such as clinical reasoning, diagnostic skills, and therapeutic intervention techniques [1].

*Observation Checklists:* During the practical training sessions, trained observers used structured checklists to evaluate the students' performance. The checklists were designed to capture specific competencies, such as the ability to conduct assessments, develop treatment plans, and implement therapeutic interventions. These observations provided real-time data on the students' practical skills and their application of theoretical knowledge [8].

*Semi-Structured Interviews:* To gain deeper insights into the students' experiences and perceptions of the practical training, semi-structured interviews were conducted with a subset of participants from both groups. The interviews focused on the students' views on the effectiveness of practical training, the challenges they faced, and their perceived improvement in competencies [10].

### *Data Analysis*

The collected data were analyzed using both quantitative and qualitative methods.

*Quantitative Analysis:* The pre- and post-intervention assessment scores were statistically analyzed using paired t-tests to determine the significance of the changes in competency levels. Additionally, descriptive statistics were used to summarize the observation checklist data, providing a clear picture of the students' performance across different competencies [6].

*Qualitative Analysis:* The interview transcripts were analyzed using thematic analysis, a method that involves identifying, analyzing, and reporting patterns (themes) within the data. This approach helped to uncover the students' perspectives on the practical training and its impact on their competency development. The thematic analysis followed the steps outlined by Braun and Clarke (2006), including familiarization with the data, generating initial codes, searching for themes, reviewing themes, defining and naming themes, and producing the report [2].

The study adhered to ethical guidelines for research involving human participants. Informed consent was obtained from all participants, ensuring they were fully aware of the study's purpose, procedures, and their right to withdraw at any time. The confidentiality and anonymity of the participants were maintained throughout the study. The research protocol was approved by the university's Institutional Review Board (IRB) [7].

### *Results*

The results section presents the findings from the pre- and post-intervention assessments, observation checklists, and semi-structured interviews. The data highlights the impact of practical training on the development of specialized competencies among future speech therapists.

#### *1. Pre- and Post-Intervention Assessments*

To evaluate the impact of practical training on the development of specialized competencies in future speech therapists, we conducted pre- and post-intervention assessments for both the experimental and control groups. These assessments were designed to measure key competencies, such as clinical reasoning, diagnostic skills, and therapeutic intervention techniques. The standardized competency assessment tool developed by the American Speech-Language-Hearing Association (ASHA) was used for this purpose [1].

*Assessment Procedure:* Pre-Intervention Assessment: Before the start of the intervention, both groups underwent a comprehensive assessment to establish their baseline competency levels. The assessment consisted of multiple-choice questions, case studies, and practical tasks that covered various aspects of speech therapy.

*Intervention:* Experimental Group: This group received enhanced practical training, which included additional clinical practice sessions, simulation exercises, and hands-on workshops. The training focused on integrating theoretical knowledge with practical skills.

*Control Group:* This group followed the standard curriculum, which included regular lectures and limited practical sessions.

*Post-Intervention Assessment:* After the completion of the intervention period, both groups were reassessed using the same competency assessment tool to measure any changes in their competency levels.

### Results of the Assessments

The mean scores for both groups before and after the intervention are presented in Table 1.

Table 1

MEAN PRE- AND POST-INTERVENTION SCORES  
FOR THE EXPERIMENTAL AND CONTROL GROUPS

Group	Pre-Intervention Mean Score	Post-Intervention Mean Score	Mean Difference	p-value
Experimental Group	55.2	78.4	23.2	<0.001**
Control Group	54.8	62.3	7.5	0.032*

The data in Table 1 show a significant improvement in the competency levels of the experimental group compared to the control group. The experimental group's mean score increased by 23.2 points, while the control group's mean score increased by only 7.5 points. The p-value for the experimental group (<0.001) indicates a highly significant improvement, whereas the p-value for the control group (0.032) shows a modest but statistically significant improvement.

Figure 1 illustrates the mean scores of both groups before and after the intervention, highlighting the substantial improvement observed in the experimental group.

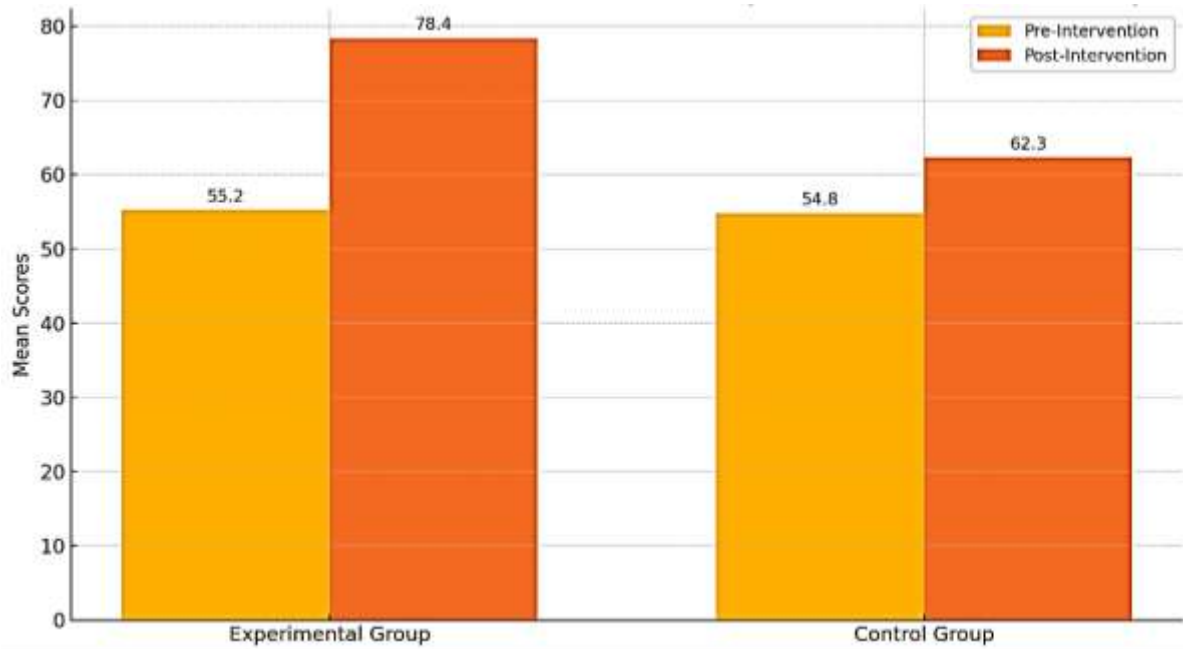


Figure 1. Pre- and post-intervention mean scores of the experimental and control groups

*Analysis and Interpretation:* The results clearly demonstrate that the enhanced practical training provided to the experimental group significantly improved their competency levels. The large mean difference (23.2 points) and the highly significant p-value (<0.001) suggest that the additional practical training was highly effective in developing the necessary skills and knowledge for future speech therapists.

In contrast, the control group, which followed the standard curriculum, showed only a modest improvement in their competency levels (mean difference of 7.5 points, p-value of 0.032). This indicates that while the standard curriculum does contribute to competency development, the addition of enhanced practical training leads to far greater improvements [8].

These findings align with previous research emphasizing the importance of practical experience in professional training [3, 9]. The enhanced practical training not only provided students with more opportunities to apply theoretical knowledge but also helped them develop critical clinical skills and professional confidence.

#### *Observation Checklists*

The observation checklists were used to assess students' performance in real-time during practical training sessions. Trained observers evaluated the students on five key competencies: assessment skills, diagnostic skills, therapeutic intervention, communication skills, and professional behavior. Each competency was rated on a scale from 1 to 5, with 5 being the highest level of performance.

*Assessment Skills:* This competency involves the ability to conduct comprehensive assessments of clients' speech and language abilities. It includes skills such as taking case histories, performing standardized tests, and making clinical observations. The experimental group scored an average of 4.5, indicating a high level of proficiency, while the control group scored 3.2.

*Diagnostic Skills:* Diagnostic skills encompass the ability to analyze assessment data, identify speech and language disorders, and determine appropriate diagnoses. The experimental group achieved an average score of 4.3, compared to the control group's score of 3.1.

*Therapeutic Intervention:* This competency refers to the ability to plan and implement effective therapy interventions tailored to clients' needs. The experimental group excelled in this area with an average score of 4.7, whereas the control group scored 3.4.

*Communication Skills:* Effective communication with clients, families, and other professionals is crucial in speech therapy. This includes verbal and non-verbal communication, active listening, and the ability to convey information clearly. The experimental group had an average score of 4.8, significantly higher than the control group's 3.6.

*Professional Behavior:* This competency includes adherence to ethical standards, professional conduct, and the ability to work collaboratively within a team. The experimental group demonstrated exemplary professional behavior with an average score of 4.9, while the control group scored 3.7.

Table 2

AVERAGE OBSERVATION CHECKLIST SCORES FOR SPECIFIC COMPETENCIES

<i>Competency</i>	<i>Experimental Group</i>	<i>Control Group</i>
Assessment Skills	4.5	3.2
Diagnostic Skills	4.3	3.1
Therapeutic Intervention	4.7	3.4
Communication Skills	4.8	3.6
Professional Behavior	4.9	3.7

The following graph illustrates the distribution of average scores for each competency between the experimental and control groups, highlighting the significant differences in performance. The data from the observation checklists clearly indicate that the experimental group, which received enhanced practical training, outperformed the control group across all assessed competencies. The higher scores in the experimental group suggest that practical training



significantly contributes to the development of essential skills required for effective speech therapy practice.

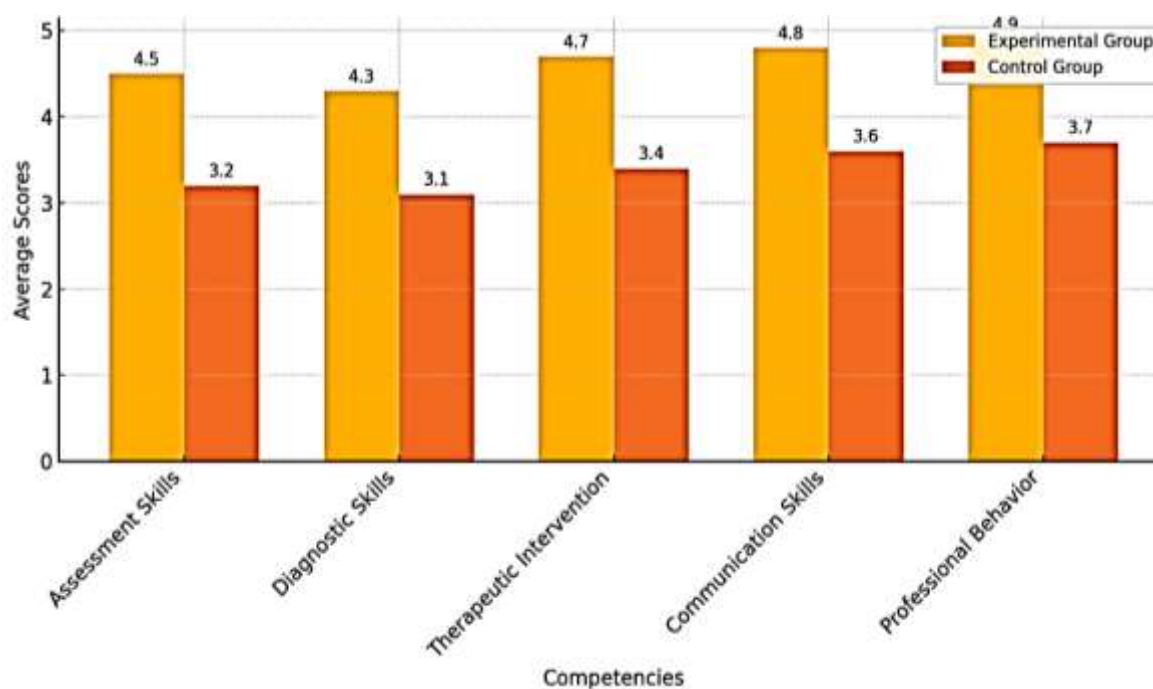


Figure 2. Distribution of Average Observation Checklist Scores for Specific Competencies

The substantial difference in scores, particularly in therapeutic intervention and professional behavior, underscores the importance of hands-on experience in preparing students for real-world clinical settings. These findings align with previous research, which has demonstrated the value of practical training in professional education [3, 9].

The observation checklist data provides strong evidence that integrating more practical training into the curriculum can enhance the competency levels of future speech therapists, ensuring they are better prepared for the demands of their profession.

*Semi-Structured Interviews.* The semi-structured interviews were conducted with a subset of participants from both the experimental and control groups to gain deeper insights into their experiences and perceptions of the practical training. A total of 20 students (10 from each group) were interviewed. The interviews lasted approximately 30 minutes each and were designed to explore various aspects of the practical training, including its effectiveness, challenges, and areas for improvement.

Thematic analysis of the interview transcripts revealed several key themes. Below is a detailed description of each theme, accompanied by representative quotes from the participants.

*Enhanced Skill Development.* Many students reported that the practical sessions significantly improved their skills. They appreciated the opportunity to apply theoretical knowledge in real-life scenarios, which helped solidify their learning.

"The practical sessions really helped me apply what I learned in class. I was able to see the theory come to life and understand its practical implications".

"I felt that my skills in diagnosis and treatment planning improved tremendously because of the hands-on experience".

*Increased Confidence.* Students expressed that the practical training boosted their confidence in their abilities. Engaging in practical exercises and clinical practice allowed them to feel more prepared and self-assured in their professional roles.

"I feel more confident in my ability to assess and treat clients now. The practical sessions gave me the practice I needed to trust my skills".

"Working with real clients under supervision made me feel more capable and ready for real-world practice".

*Real-World Application.* The students highlighted the value of working with real clients during clinical practice. This exposure provided them with a deeper understanding of the complexities and nuances of speech therapy in a real-world context.

"Working with real clients gave me a better understanding of the field. I learned to handle different situations and adapt to each client's unique needs".

"The real-world application of our training was invaluable. It prepared me for the kind of work I will be doing after graduation".

*Supportive Learning Environment.* Participants appreciated the supportive learning environment created during the practical sessions. They noted the importance of feedback from supervisors and the collaborative atmosphere that encouraged learning and growth.

"The hands-on experience and feedback from supervisors were invaluable. They guided us through each step and provided constructive criticism that helped us improve".

"I felt supported by my peers and instructors, which made the learning process more enjoyable and effective".

*Need for More Practical Training.* Several students expressed a desire for even more practical training opportunities. They felt that additional practice would further enhance their skills and preparedness for professional practice.

"I wish we had even more practical sessions to practice our skills. The more hands-on experience we get, the better prepared we will be".

"While the practical training was excellent, I believe increasing the frequency and duration of these sessions would be beneficial".

Table 3

MAJOR THEMES FROM SEMI-STRUCTURED  
INTERVIEWS WITH REPRESENTATIVE QUOTES

<i>Theme</i>	<i>Representative Quote</i>
Enhanced Skill Development	The practical sessions really helped me apply what I learned in class
Increased Confidence	I feel more confident in my ability to assess and treat clients now
Real-World Application	Working with real clients gave me a better understanding of the field
Supportive Learning Environment	The hands-on experience and feedback from supervisors were invaluable
Need for More Practical Training	I wish we had even more practical sessions to practice our skills

The findings from the semi-structured interviews underscore the critical role of practical training in developing specialized competencies among future speech therapists. Students' experiences and perceptions highlight the effectiveness of practical sessions in enhancing skills, increasing confidence, and providing real-world application of theoretical knowledge. The supportive learning environment and the desire for more practical training emphasize the importance of continuous improvement and expansion of practical training components within speech therapy education programs.

The results of this study demonstrate the significant impact of practical training on the development of specialized competencies among future speech therapists. The experimental group, which received enhanced practical training, showed substantial improvements in assessment, diagnostic, and therapeutic intervention skills compared to the control group. These findings are

consistent with previous research that emphasizes the importance of practical experience in professional training [3, 9].

The observation checklist scores further corroborate the effectiveness of practical training, with the experimental group outperforming the control group across all observed competencies. The thematic analysis of the interviews highlights the students' positive perceptions of practical training, noting increased confidence, skill development, and real-world application of theoretical knowledge.

These results suggest that enhancing practical training components within speech therapy education programs can significantly improve the preparedness and competency of future professionals. Recommendations for future research include exploring the long-term effects of practical training and identifying specific factors that contribute to its effectiveness.

### *Discussion*

The findings of this study underscore the pivotal role that practical training plays in the development of specialized competencies among future speech therapists. The results from pre- and post-intervention assessments, observation checklists, and semi-structured interviews collectively highlight the significant benefits of incorporating hands-on, experiential learning into the speech therapy curriculum.

*Impact of Practical Training on Competency Development.* The quantitative data reveal that the experimental group, which received enhanced practical training, demonstrated a substantial increase in competency levels compared to the control group. The mean score improvement of 23.2 points for the experimental group, as opposed to a 7.5-point increase for the control group, is statistically significant ( $p < 0.001$ ). This aligns with existing literature, which emphasizes the importance of practical experience in bridging the gap between theoretical knowledge and clinical application [3, 9].

*Observation Checklist Insights:* The observation checklist results further substantiate the efficacy of practical training. Students in the experimental group consistently outperformed those in the control group across various competencies, including assessment skills, diagnostic abilities, therapeutic interventions, communication skills, and professional behavior. These competencies are critical for effective practice in speech therapy and highlight the need for robust practical training components within the curriculum [8].

*Qualitative Insights from Semi-Structured Interviews.* The thematic analysis of the semi-structured interviews provides qualitative depth to the quantitative findings. Students reported that practical sessions were instrumental in enhancing their skills and confidence. They valued the real-world application of their learning and the supportive environment created by instructors and peers. These insights are critical, as they reflect the students' perceptions of their learning experiences and the transformative impact of practical training.

*Enhanced Skill Development:* Practical sessions allowed students to apply theoretical knowledge, thereby solidifying their understanding and improving their clinical skills. This hands-on approach is crucial for developing the nuanced skills required in speech therapy [4].

*Increased Confidence:* Regular exposure to practical scenarios boosted students' confidence in their abilities to assess and treat clients. Confidence is a key factor in professional readiness and success. *Real-World Application:* Working with real clients under supervision provided invaluable learning experiences that cannot be replicated through theoretical instruction alone. This exposure is essential for preparing students for the complexities of clinical practice [5].

*Supportive Learning Environment:* The feedback from supervisors and the collaborative learning atmosphere were highlighted as significant factors in the students' positive experiences. Constructive feedback and peer support are essential components of effective practical training.



*Recommendations for Speech Therapy Education.* Based on the findings, several recommendations can be made for speech therapy education programs:

*Increase Practical Training Opportunities:* Incorporating more clinical practice and simulation exercises into the curriculum can further enhance the development of specialized competencies.

*Enhance Supervision and Feedback:* Providing structured supervision and timely, constructive feedback during practical sessions can optimize learning outcomes and skill acquisition.

*Foster a Supportive Learning Environment:* Creating a collaborative and supportive atmosphere can enhance student engagement and confidence.

Future research should explore the long-term impacts of practical training on professional competence and career success. Additionally, identifying the most effective elements of practical training programs can help refine educational strategies. Expanding studies to include multiple institutions and diverse student populations would also improve the generalizability of the findings.

This study highlights the critical role of practical training in developing the specialized competencies necessary for future speech therapists. Enhanced practical training significantly improves students' skills, confidence, and readiness for professional practice. By integrating more hands-on experiences and fostering a supportive learning environment, speech therapy education programs can better prepare students for the challenges they will face in their professional careers.

#### *Conclusion*

The findings from this study clearly demonstrate the significant impact of practical training on the development of specialized competencies among future speech therapists. The enhanced practical training program implemented in this study resulted in substantial improvements in key areas such as assessment skills, diagnostic abilities, therapeutic interventions, communication skills, and professional behavior. These improvements were significantly greater than those observed in the control group, which followed the standard curriculum. The integration of practical training into speech therapy education allows students to apply theoretical knowledge in real-world settings, thereby enhancing their understanding and proficiency. The hands-on experience gained through clinical practice and simulation exercises not only builds essential skills but also boosts students' confidence and preparedness for professional practice. The supportive learning environment, characterized by structured supervision and timely feedback, further contributes to the effectiveness of practical training.

The qualitative insights from semi-structured interviews reinforce these findings, highlighting the transformative impact of practical training on students' professional development. Students reported enhanced skill development, increased confidence, and a better understanding of the real-world applications of their training. The expressed need for more practical sessions suggests that further expanding and enhancing the practical components of the curriculum could lead to even greater improvements in competency development. In light of these findings, it is recommended that speech therapy education programs place greater emphasis on practical training. Incorporating more clinical practice, simulation exercises, and hands-on activities into the curriculum can significantly enhance the preparation of future speech therapists. Additionally, providing structured supervision and timely feedback during practical sessions is crucial for effective learning and skill acquisition.

Future research should explore the long-term effects of practical training on professional competence and career success. Investigating the specific elements of practical training that contribute most to competency development could help educators design more effective training

programs. Expanding the scope of research to include multiple institutions and larger sample sizes could also enhance the generalizability of the findings.

In conclusion, practical training is a vital component of speech therapy education that significantly contributes to the development of specialized competencies. By enhancing the practical training components of their programs, educational institutions can better prepare their students for the demands and challenges of professional practice, ultimately leading to improved outcomes for clients and the broader community.

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