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A Survey Based on Xceptional Learning Platform

Ms. Shikha Merin Philip, Ms. Ferly Felix & Dr. Satish Kumaraswamy
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Abstract

Speech and Language intervention provide different techniques for individuals with special needs depending up on the individual's strength and weakness. Teletherapy services have made it even simpler to receive the speech language intervention through the use of digital technology. This study helps to understand awareness of Xceptional Learning Platform among parents and SLP's. The study was conducted by providing 15 closed set of questionnaires to evaluate the awareness of Xceptional Learning Platform. Based on the statistical analysis, result demonstrates that parents are more aware of using Xceptional Learning Platform as parents are purchasing and using app more than SLP's.

Introduction

A speech language therapist, often known as a communication therapist, evaluates, diagnoses, and treats communication issues and disorders. Speech language intervention can help individuals with speech and language problems caused by stroke, brain injury, or other diseases as well as children with speech language disorders. There is risk of having social and intellectual issues, which could have long-lasting effects throughout puberty and life. It's crucial to start speech language intervention early and use it well. Due to cost effectiveness, socioeconomic standing, and geographical obstacles for families, access to speech language intervention could be improved with the help of technology, particularly with the help of mobile.

Technology has advanced in the field of speech and hearing, where professionals have been experimenting with various cutting-edge tools and providing top-notch services without jeopardising the most important treatment choice an individual may receive in a lifetime. Online therapy sessions are currently accepted as physical therapy sessions all around the world, as per the studies and reports in the health sector.

The Modern world's technology offers a wide range of chances for online speech and language intervention. Rather than Zoom and Google meet, many other online therapy apps such as Speak Easy, Apraxia, Common Boards Lite, Articulation Station, Speech Tutor, Gemini, Neuron UP and other speech treatment applications are introduced.

Xceptional Learning Platform approach is substantially more time consuming and accessible by making intervention approaches easily available wherever a mobile device can reach. By increasing personalization, it is primarily beneficial for persons who confront the

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effects of social stigmas linked with communication difficulty. Sessions are convenient for parents' schedules, and they can make a significant contribution in their children's lives. If a person prefers online intervention mode as, it is easily available and inexpensive without limiting the person to a specific location. Additionally, by allowing individuals to generalise therapeutic goals to real-world circumstances, these treatment applications may provide additional choices for clients to gain critical feedback to reward positive behaviours and enhance performance.

Xceptional Learning Platform is formed by a leadership team that has decades of rich experience in the field of special education, occupational therapy, physical therapy, virtual reality, online education learning and information technology. It also includes therapy materials, scheduling, Goal bank and Teletherapy.

Xceptional Learning is a marketplace of solutions and tools that provides everything on a school-based curriculum. It contains a customized content library that can be organized and accessed during teletherapy sessions. And also, hundreds of Learning materials, Videos, Web Apps, Games which will help in the child's interest. The app will also provide compensatory services or missed services when therapists and special education providers take time off. The main thing that is highlighted in this platform is all the therapy materials can be stored, sorted and accessed from one place rather than going in and out of google drive. It can be quick assessed to add and review session logs and notes.

Tele-practice has progressed in the field of Speech and hearing over the last few decades with widespread availability, high-quality video conferencing solutions, and the evolution of distance learning technology. Tele-practice programs have been increasingly developing among practitioner's such that it provides family centered early intervention services, speech language therapy for children in public schools and rehabilitation to adults recuperating from Aphasia as well as those with speech and swallowing disorders.

American speech and hearing association (2005) determined that tele-practice is an appropriate model of service delivery for audiologist and speech language pathologists. These services have been a supporting system for student educational attainment and it was also found that these services are the only speech and language support they receive.

Fairweather (2016) examined the effectiveness and feasibility of a speech language therapy program delivered via teletherapy to children in rural Australia. The responses of participating children are shown as a significant increase throughout intervention period. Even the parents of these participating children appreciated the use of this option specially in places where alternatives are insufficient.

Studies shows that mobile Apps were useful for children with speech disorders which involves difficulty including speech perceptions, phonological representations, articulation or

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motor production and phonotactics (Furlong,2018). Studies have shown that development of mobile Apps has been used to identify the presence of Aphasia and improve language outcomes and cognitive skills in adults with acquired cognitive disorder (Atiyeh, 2020).

Lisa (2018) investigated on the mobile apps for treatment of speech disorders in children. She concluded that Children with speech problems with speech perception, phonological representations, articulation/motor production, and phonotactics seem to benefit from these apps.

Jessica (2020) investigated on mobile apps for speech language therapy in adults. She concluded that, there are many interactive and engaging elements in the apps.

According to Munoz et.al adults with stroke and TBI used an app involving the target for speech, language, and cognitive skills. Regardless of demographic such as age, these apps were used higher in geographical areas with limited access to SLP clinics.

Methodology

Aim

The Aim of the study was to analyse the awareness of parents and clinicians about Xceptional Learning Platform.

The study was carried out in two phases

Phase1: Developing Questionnaire

In order to determine the level of knowledge of the Xceptional Learning Platform, a series of 15 closed-set (yes/no) questions were created. All of these questions were validated by 15 speech-language pathologists with more than five years of experience in the area. The corrections and suggestions advised by SLP's was incorporated and final questionnaire was ready to administer as shown below.

1. Does Xceptional Learning Platform features help in school-based sessions? (yes/no)
2. Does Xceptional Learning Platform provide any compensatory services? (yes/no)
3. Does Xceptional Learning Platform offer a free trial? (yes/no)
4. Does Xceptional Learning Platform schedule demo with specialists through this innovative platform? (yes/no)
5. Do Speech therapist need to be licensed to use this platform? (yes/no)
6. Does Xceptional Learning Platform provide any attendance logs and count hours of therapy provided to each student manually? (yes/no)
7. Does Xceptional Learning Platform have any help centre to enquire about the queries? (yes/no)

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8. Do you observe any improvement in your child or client after different sessions? (yes/no)
9. Does Xceptional Learning Platform help to store therapy materials, sorted and accessed in one place rather than going in and out of your google drives or computer files? (yes/no)
10. Does Xceptional Learning Platform use different languages to stimulate language in a bilingual child? (yes/no)
11. Is Xceptional Learning Platform cost effective? (yes/no)
12. Does Xceptional Learning Platform work with different kind of users and organizations? (yes/no)
13. Are you aware that your data can be saved in this App? (yes/no)
14. Does Xceptional Learning Platform provide Quick feedback and clarifications? (yes/no)
15. Does Xceptional Learning Platform features drive attention to the users? (yes/no)

Phase II: Participants with Inclusive and Exclusive Criteria

A total of 30 participants including parents and SLPs of different age groups were participated in the present study. Participants include both men and women who are healthy and had no neurologic abnormalities or other mental illnesses.

Stimulus: A closed set of 15 questions prepared was used for sampling purpose.

Procedure: The list of validated questions was administered among the SLPs and parents and the task of the participants was to read and understand the questions and adequately respond to the questions by marking Yes or No.

Analysis: The responses from the survey was analyzed further scored as "1" for "Yes" and "0" for "No" response. The obtained values were statistically analyzed using Mean s.d and t test is used.

Result

The aim of the present study was to compare the awareness of Xceptional Learning Platform between parents and SLP's and the obtained results are discussed below.

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Fig1:

Showing the awareness of parents (in %) for each question. Red bars showing parents' level of awareness and blue bars showing SLPs level of awareness
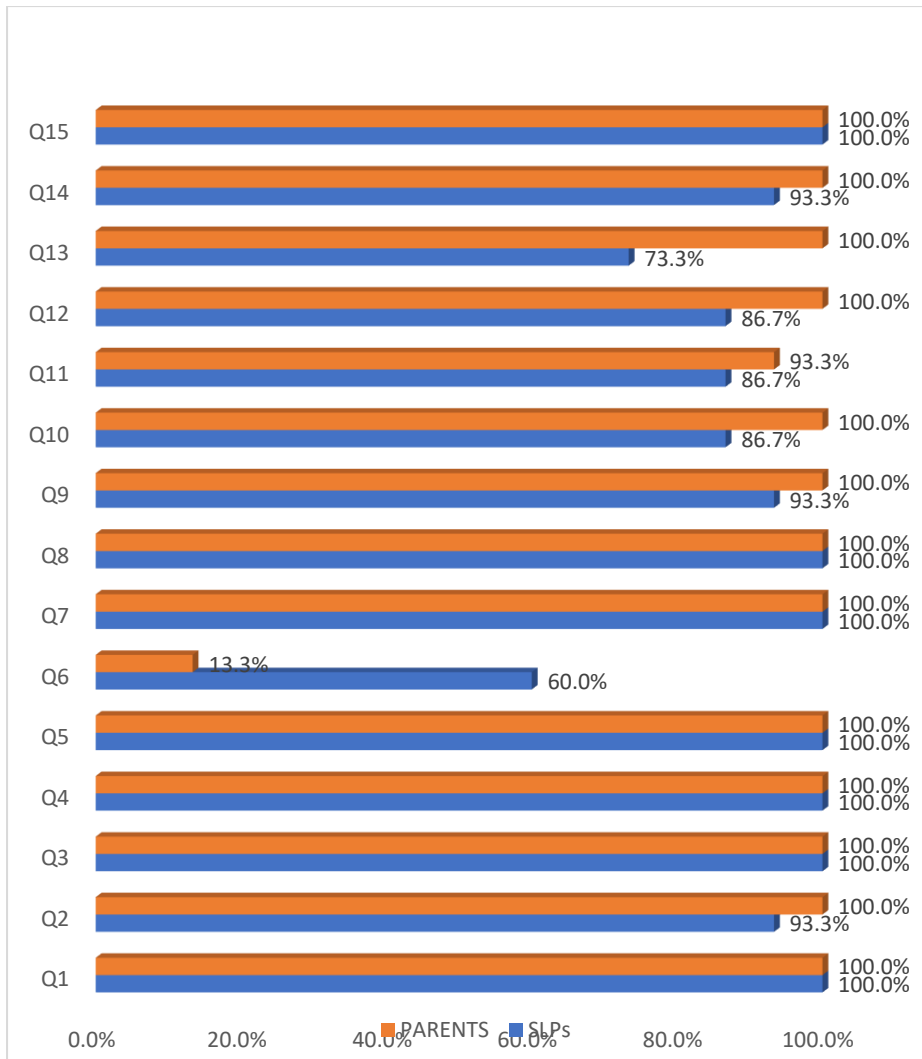

Table 1:

showing the mean value of awareness among SLP's and parents.

Group Statistics		
Group		Mean
Awareness (out of 15)	SLPs	13.73
	PARENTS	14.07

Most of the parents and SLP's were aware of Xceptional learning App.

Question 1 was about App features that help in school-based sessions. 100% of parents and SLP's were aware.

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Question 2 was about compensatory services. 93.3% of SLP's and 100% of parents were aware of the services.

Question 3 was about free trial. 100% of SLP's and parents were aware.

Question 4 was about demonstration with specialist.100% of SLP's and parents were aware.

Question 5 was about licensed speech therapist. 100% of SLP's and parents were aware.

Question 6 was about attendance logs and count hours. 60% of SLP's and 13.3% of parents were aware.

Question 7 was about the help centers to enquire queries. 100% of SLP's and parents were aware.

Question 8 was about the improvement of client. 100% of SLP's and parents agreed that their child have improvement using this app.

Question 9 was about storage of therapy materials. 93.3% of SLP's and 100% of parents were aware.

Question 10 was about the use of language to stimulate bilingual child. 86.7% of the SLP's and 100% of parents were aware.

Question 11 was about the cost effectiveness. 86.7% of SLP's and 93.3% of parents found the app to be cost effective.

Question 12 was about different organizations that work with Xceptional learning app. 86.7% of SLP's and parents were aware of the question.

Question 13 was about the data that can be saved in the app. 73.3% of SLP's and 100% of parents were aware.
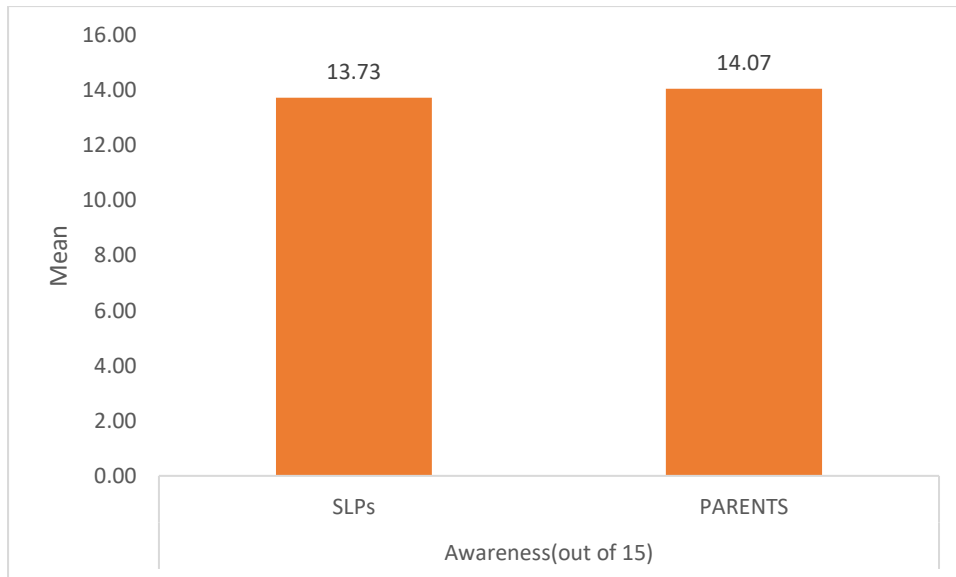
Question 14 was about the quick feedback and clarifications. 93.3% of SLP's and 100% of parents were aware of the question.

Question 15 was about how the features of app were attracting the users. 100% of SLP's and parents were aware of the app.

The X-axis in the following graph represents awareness, while the Y-axis shows mean awareness for the Xceptional app.

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Fig 2:

Showing the awareness level of Xceptional Learning Platform among parents and SLP's

According to the results shown in the graph above, 14.07 percent of parents and 13.73 percent of SLPs reported utilizing the Xceptional Learning Platform was effective.

Discussion

All questions scored more than 50% for questions on awareness among parents and SLP's. But about the attendance logs and count hours, parents scored less than 50% because parents were not aware that attendance logs and count hours will be automatically saved in the app. From results it can be inferred that parents are more aware of Xceptional learning Platform than SLP's as parents are purchasing and using Xceptional Platform more than SLP's.

Conclusion

An Xceptional Learning Platform, which has been professionally tested, provides assessments and treatment videos, tests for people with special needs. The present research was carried out to validate the awareness of the Xceptional Learning Platform among parents and SLP's. It can be concluded that, the Xceptional Platform can be an effective technological tool for the assessment and management of speech and language therapy for individuals with disability.

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	Ms. Shikha Merin Philip Dr. MV Shetty College of Speech and Hearing Mangaluru, Karnataka 575013 shikhamerin253@gmail.com
	Ms. Ferly Felix Dr. MV Shetty College of Speech and Hearing Mangaluru, Karnataka 575013
	Dr. Satish Kumaraswamy Professor and Principal Dr. MV Shetty College of Speech and Hearing Mangaluru, Karnataka 575013 sat8378@yahoo.com