Effectiveness of Gemiini APP

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Abstract - **Speech and language therapy services are made to meet the present standards by incorporating technology. Tele practice has attained a great attention in speech and language therapy services. Variety of tools are available for speech and language therapy services including speech-language pathology software's. The purpose of the present study is to find out the effectiveness of Gemiini app. The present study included 30 participants, including parents and SLPs from various age groups who frequently used this app. A set of 15 closed set (yes/no) questions were prepared to know the effectiveness of Gemiini app. From this study it can be concluded that Gemiini app is effective and useful for the assessment and management of speech and language therapy.**

Index Terms - **Gemiini, speech therapy, communication, telepractice.**

1.INTRODUCTION

Speech and language therapy services are made to meet the present standards by incorporating technology. Technologies are extremely motivating for children and have numerous creative ways to incorporate it into your sessions. Presently the apps in Android and iPhone are a part of technology boone for speech and language therapy services with critical to consider evidence-based practises, while adapting telepractice in speech or language therapy.

American Speech and Hearing Association (ASHA) (2002) determined that tele practice is an appropriate model of service delivery for audiologists and speech-language pathologists (SLPs).Tele practice has attained a great attention in speech and language therapy services. Speech-Language Pathologists (SLPs) make use of computers, tablets, smart phones, smart boards, and more in speech therapy services which are provided over the internet via video conferencing platforms such as the Skype, zoom, google meet apps etc.

Variety of tools are available for speech and language therapy services including speech-language pathology software's. Patients now have a variety of apps to help them learn and practice on the go, from a location of their choice, using devices such as tablets, laptops etc which changes the delivery of rehabilitation services.

Apps available for speech and language therapy are Articulation Station, Splingo, Speech Tutor, Conversation Therapy, Naming Therapy, LAMP Words for Life,Proloquo2Go,Apraxia Therapy, DAF Pro, Gemiini, Neuron UP, Verge app, constant therapy app etc.

Hatcher, Frost, Weiler and Bland (2022) founded the need to integrate a tele practice component to clinical education for speech-language pathology programs at the graduate level.

Morlock, Reynolds, Fisher and Comer (2014) analysed the video modelling and word identification in adolescents with autism spectrum disorder and found that video modelling may be a viable intervention to foster the reading development of adolescents with ASD.

Research evidence shows that, online therapy services are just as effective as traditional therapy sessions. As child receives speech therapy virtually which does not imply that they must forego their level of care, progress toward speech and language goals and or educational attainment.

The significant advantages of these apps are that they are available in reasonable price and provide an easy access for children to practice at home. Parents can help their children practice their speech and language skills at home by downloading apps and computer games. Usage of the best speech therapy apps helps to provide a distinct advantage for parents who do not have the budget or time to bring their children to a Speech Language Therapist on a daily basis.

Gemiini Systems is the first full-fledged remote learning program designed specifically to assist people with special needs (Laura Kasbar.,2020). Gemiini is a clinically validated program that provides persons with special needs with treatment videos, quizzes, and assessments. Discrete Video Modelling claims to teach expressive language using a series of evidence-

based tactics from the applied behaviour analysis and speech literature, such as repetition and massed trials, stimulus differences, generalisation, multiple cues, peer models, and focusing on salient features of speech like a close-up video presentation of the hyperarticulated words presented (Gilmour, M. F.,2015). In children with autism, video modelling has been found to be even more helpful than in vivo modelling. (Charlop & Milstein, 1989; Charlop-Christy & Daneshvar, 2003; Charlop-Christy, Le & Freeman, 2000). Video modelling may also help children with ASD develop play skills such as complex play sequences, sociodramatic, and pretend play skills, according to research. (MacDonald, Clark, Garrigan & Vangala, 2005; D'Ateno, Mangiapanello, & Taylor, 2003; Dauphin, Kinney & Stromer, 2004; D'Ateno, Mangiapanello & Taylor, 2003).

Gemiini app is a clinically proven programme that offers therapy videos, quizzes and assess people with special needs. To teach speech, language, reading, and behavioural skills, the discrete video modelling method focuses on presenting one concept at a time. The school curriculum has mostly been employed in the United States, with a claimed 9 percent gain in language learning over baseline throughout the population after a week during a clinical study in Spokane Public Schools (GemIIni, 2015). Early interventions for Autism have been shown to have significant long-term positive effects on symptoms and later skill development. Gemiini's evidence-based therapy can be used to teach both children and adults with Autism whose skills used in our daily interactions at any time and in any place. The programme is used with children who have language and communication delays, dyslexia, attention deficit hyperactivity disorder, hearing impairments, cerebral palsy, and those with severe language delay, in addition to those with ASD. (GemIIni,2015).

The efficacy of speech and language therapy interventions is a popular topic among researchers, practitioners, and caregivers. And, as things stand, there is still a lot of work to be done. Overall, meta-analytic speech-therapy research suggests that positive treatment outcomes, at least for children may be heavily influenced by the type of intervention used. Treatment outcomes, like any other therapy, can vary greatly between individuals, depending on the nature and severity of the impairment, disorder or affliction.

Gemini's on-demand therapy focuses on improving the vocabulary, articulation and language skills required for children and adults with Down syndrome to open the door to speech. As an early intervention for children with speech delays, Gemiini can improve language, cognitive, social, emotional, and motor skill development. Gemiini makes it simple for parents to incorporate effective therapy services. Because the program provides unlimited access to learners where they can watch videos whenever and wherever they want, saving families valuable time and money. Gemiini's online library of over 150,000 therapeutic video clips enables clinicians to create customised discrete video modelling sessions. The use of Gemiini allows individuals to receive more therapeutic time while freeing up therapists' time. Teachers and therapists can create custom video assignments that correspond to an individual's IEP goals, which parents can easily access and use at any time and location. Teachers can also remotely assess a child's receptive and expressive language skills.

GVM should be used in conjunction with speech therapy to achieve the best results. The program also argues that learning should not be limited to the classroom, therapy sessions or at home but should occur in a variety of settings in which the kid may interact.

Lam, Lee & Tong (2021) found that telepractice is an acceptable alternative service delivery option for providing speech and language therapy services to school-aged individuals. speech-language therapists and parents must play a more proactive role in telepractice services to facilitate effective communication between clinicians and parents.

During the COVID-19 Crisis Gemini Systems a complete telehealth/distance learning program for special education, is providing their program at no cost to schools (Laura Kasbar.,2020). The GemIIni Video Modelling (GVM) is a web-based tutorial for children with ASD and other speech and language impairments to help them enhance their receptive and expressive language communication abilities (Dr. P. Mweli.,2020). It's vital to highlight that the GVM program's findings are backed up by very little empirical evidence. In this study we are mainly focusing to see the effectiveness of Gemini app and to see how good it is for the client and family members.

2.METHOD

2.1.AIM: Aim of the study is to analysis the effectiveness of Gemiini app.

The study was carried out in two phases

Phase 1: Preparation of questionnaire

A set of 15 closed set (yes/no) questions were prepared in order to know the effectiveness of Gemiini app. All these questions that were prepared was validated by 10 speech language pathologist who are working in the field for more than 5 years. The correction and suggestion given by SLP's were incorporated. The final questionnaire is as follows.

APPENDIX I

1. Are you aware of Gemiini app? (yes/no)
2. Is the app cost effective? (yes/no)
3. Do you feel any difficulty while using this app? (yes/no)
4. Do you feel this app is useful for your child or client? (yes/no)
5. Does this app have any option for using in different languages? (yes/no)
6. Are you aware that your data is saved in this app? (yes/no)
7. Does all the features in this app helps in curriculum-based rehabilitation? (yes/no)
8. Do you observe any improvement in your child or client? (yes/no)
9. Does this app answer all your queries? (yes/no)
10. Does this app offer a free trail? (yes/no)
11. Can Gemiini app be used by common people? (yes/no)
12. Do you recommend this app for others? (yes/no)
13. Does your child attend the sessions voluntarily or need to be forced? (yes/no)
14. Have you ever used any other app apart from Gemiini app? (yes/no)
15. Do you feel Gemiini app is better than offline therapy? (yes/no)

Phase II: Participants

A total of 30 participants including parents and SLPs of different age groups who have been frequently using this app participated in the present study. Irrespective of males and females who were free from neurogenic disorders or any other psychological illness.

Stimulus used: A closed set of 15 questions which was prepared was used.

2.2. Procedure: The questionnaire was administered on SLPs and parents. Where participants were asked to read and understand the questions and adequately and appropriately mark response to the questions.

2.3.Analysis: For each item, the response was recorded as yes or no and a credit point of one was assigned for yes and zero for no. Further data was statically analysed for frequency and percentage.

3.RESULT

The aim of the present study was to assess the effectiveness of Gemiini app and the obtained results are discussed below.
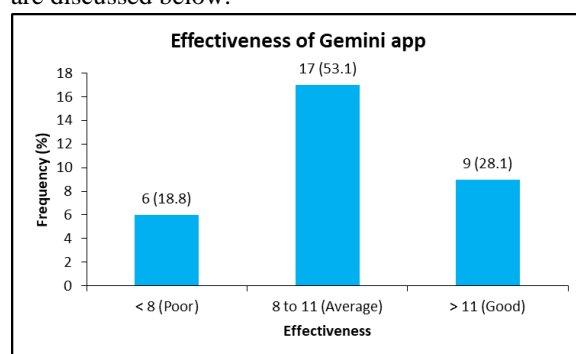

Fig: 1 showing the awareness of Gemiini app among parents and SLP's

Fig 1 shows the effectiveness of Gemiini app, and the X-axis represents the effectiveness whereas Y-axis represents the frequency (%).

The result from the above graph states that, 28.1% participants performance was good on using the Gemiini app whereas 53.1% participants had reported with average effectiveness and 18.8% participants had reported with poor efficacy on Gemiini app.

4.DISCUSSION

The study's objective is to evaluate how effective the Gemiini app is. The results of responses from the questionnaire shows that the effectiveness of Gemiini app. From the above-mentioned questionnaire (appendix 1) it shows that out of 15 questions, 4 questions were responded with 100% of positive response. About 5 questions were responded with above 50% whereas rest of the questions were below 50% response. These questions were mostly responded by the parents whose children requires special needs and very few of them were responded by speech language pathologist. All the responses came

up with an assumption that this app was intermittently used by parents than SLP's. As we know parents are more concerned with their children such that they consider each and every setting surrounding their children to be more prioritized. SLP's are more empathised towards face-to-face therapy session rather than online sessions which can be concluded from the responses given by the SLP's. This briefly explains that SLP's shows lack of interest towards online app when compared to offline therapy services. Howbeit, none of them shows dismissive responses towards the use of Gemiini app. Overall the responses based on the results set out a brief knowledge on productive use of Gemiini app.

5. CONCLUSION

Gemiini app is a clinically proven program that offers therapy videos, quizzes, and assess people with special needs. The purpose of our study was to assure the effectiveness of Gemiini app. From the above study it can be concluded that Gemiini app is effective and useful for the assessment and management of speech and language therapy which can be used as a technological method.

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