



***The use of modern technology
in the treatment of people with special***

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Abstract:

It is a religious, social and educational duty to take care of people with disabilities such as their right to education and learning like other members of society, and therefore the curricula and teaching methods must be adapted for them, and what helped in this is the development of educational means and tools in the second half of the twentieth century. The use of educational technology becomes necessary for people with special needs when the disability's degree is very severe, which constitutes a difficulty for developing countries with the costs of communication and information technology and the problem of the digital divide.

Keywords: *People with special needs, the treatment program, Modern means of technology, modern technology, disability, help.*

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I. INTRODUCTION

After the development of information technology, the means of communication greatly helped people with visual impairments and allowed them to integrate with society, especially since international institutions paid attention to this issue at the Summit of the Information Society. (Saeed, 2005, p. 58).

Because the use of the computer is not only limited to ordinary people and their capabilities, but rather it is an inevitable necessity, so the curricula and teaching methods must be adapted to people with disabilities.

In addition to activating the early prevention program, because this reduces the occurrence of disability and decreases the moral and material efforts of the care and rehabilitation programs. (Al-Othman, 2022).

Accordingly, the idea of the article came to explain how to use modern technology in treating people with special needs and to raise awareness of caring for this group in order to obtain equal opportunities with their abilities. Therefore, the following question was asked: What is the effect of using modern technology in teaching and developing treatment programs for people with special needs?

1. Objectives

- To recognize the importance of providing treatment programs for people with special needs, which are related to the medical, rehabilitation, psychological and educational aspects.
- Developing and providing qualified individuals in the field of education in this category.
- Raising the level of awareness and introducing the controls of the treatment process.

2. Study concepts

1. People with special needs

They are individuals who deviate from the average in one or more aspects of personality, whether physical, mental, psychological or social, that prevents them from achieving parallelism and normal behavior.

2. The treatment program

The therapeutic program is a set of organized scientific steps, which follow a logical sequence, with the aim of providing an effective treatment service to the patient.

3. Modern means of technology

the total accumulated and available knowledge and experience, and the material, organizational and administrative tools and means used in collecting, processing, producing, storing, retrieving, disseminating and exchanging information to reach individuals and societies. (Isani, 2010).

II. Methods and Materials:

In this study, we relied on the survey approach, which is adopted in the field of social research, because of its ease and clarity of steps, and the possibility of using different statistical methods in analyzing data.

And there are those who believe that social surveys are: "Those researches that focus on studying the current facts related to describing the nature, features and characteristics of a society or a group. After the exploratory study, one moves between the hypotheses that have been extracted to reach the most important of them. (Qahtan, 2005, p. 45).

III. Discussion and Results:

1. The first stage of treatment for people with special needs

An accurate diagnosis is the first step in treatment because it helps to start treatment programs, which prepare the education system necessary for people with special needs, and also helps in organizing educational goals gradually to identify priorities and start with the most important, and defines the behaviors that need to be modified and treatment, and provide appropriate support for this category.

And when we talk about discovering the patient's condition or knowing the type of disability in the patient, this is the responsibility of the parents, as they notice problems in the child that prevent him from reaching the level of his brothers or friends, then the teacher who discovers some disorders or problems among his students in the classroom, such as learning difficulties and behavioral and psychological disorders. (Al-Aujan, 2022).

2. Controls of treatment programs for people with special needs:

There are a set of controls that must be taken into account when carrying out a therapeutic strategy for people with special needs, the most important of which can be mentioned in the following items:

1- The process of accurate diagnosis in all medical, psychological and educational aspects, then setting the starting date and providing treatment programs.

2- Choosing a treatment program that covers all the needs of the person with special

needs and achieves the maximum degree of educational, psychological and social development within the framework of the goals to be achieved. (Rabi, 2008, p. 60).

3- Individuality in treatment programs, where there cannot be a single treatment method that works for all individuals, even if the disability is the same, there are several variables. (Qahtan, 2005, p. 45)

4- Describe the current levels of performance for each person with disabilities, including personal adaptation, social adaptation, self-care skills, movement skills, and the level of academic performance.

5- Description of treatment services, support services, training methods and tools.

6- Equipping the members of the diagnostic team responsible for implementing the treatment program. (Saeed, 2005, p. 58).

The treatment program should be clear in terms of its basic stages and their sequence in terms of level, and that these stages should be interesting for the learner.

7- Diversifying the educational activities related to therapy so that they include some detailed activities (sense and movement) and trying to convert them into a group activity, taking into account the individual differences of each person with special needs. (Othman, 2022).

3. The functions of educational technology and its importance in treatment programs for people with special needs

The use of technological means in the lives of people with special needs has psychological, academic, social or economic advantages.

Many studies have shown that the use of some educational tools, such as computers, has a significant role in reducing stress and psychological anxiety among students.

Where entertainment programs and games are available, in order to modify their behavior.

Arab and foreign studies have also demonstrated the effectiveness of teaching aids in treating many behavioral and psychological problems for students with special needs, such as reducing hyperactive behavior and improving distraction, impulsiveness, and hyperactivity.

It is clear that educational technology has an important role in the teaching and learning of people with special needs, and therefore the special education teacher must know how to deal with these educational means.

Among the benefits of technology in teaching people with special needs are the

following: (Abdel-Aty, 2022)

- Solving the problem of individual differences among people with special needs, because the various means of education technology have multiple stimuli for learners, helping them equally and better all of them, even if their abilities, preparations, and learning style differ.

- Contribute to the creation of good attitudes and behaviors such as (following order and cooperation), which helps the child to adapt socially.

- Formation of sound concepts and terminology of things through pictures and models of lifestyle in the form of animated pictures

Providing children with special needs with the necessary academic skills to adapt to the society around them through observation and practice, using technology

- Addressing the problem of abstraction because technology provides sensory things for people with disabilities

- Obtaining immediate feedback in the learning process through computer software that enables people with special needs to know the error or correctness of their response immediately and establish the correct answers.

- The possibility of repeating experiences in the event of difficulty in understanding or assimilation due to disability.

- Providing external advantages that compensate students with special needs for the weakness in their attention stimuli.

4. Models of using technology in teaching people with special needs (Abdel-Aty, 2022)

The Magic Lantern Projector:

It is one of the modern devices dedicated to displaying dark images through the reflective mirror. This device is available in the schools of the Ministry of Education and helps people with hearing disabilities because it enlarges dark images, drawings, maps, and others.

Overhead monitor:

It is available in all schools and the teacher may use this device by displaying some graphics and images designed on transparencies for viewing.

Transparency display device (slide projector):

It is easy to operate. It produces the special programs automatically or the teacher

does it.

Educational TV:

It is approved for people with hearing disabilities, it combines a number of senses, which constitute tools for introducing the educational material, such as the sense of sight on which the deaf child relies, but the teacher must know the method and skill of use and choose the appropriate time and situation.

Educational computer use: (Jabara, 2001, p. 202)

Because the computer in the field of education is useful for all types of students in order to remove the barrier of communication between them.

5. Training some teachers on how to use advanced audio tools during education

Technological development in the field of hearing aids has led to the discovery of advanced devices such as the (FM) device by wearing a hearing aid, and the teacher has to wear the rest of the device with the microphone as shown in the picture, and some teachers have been trained on how to use it and its importance for the hearing-impaired student, as he transmits the sound directly from teacher to student.

6. Technical methods for teaching people with intellectual disabilities

Some of the educational devices in schools are:

- Overhead projector
- Educational TV
- Video device

The educational specialist visits the learning resource center in his school and uses the appropriate techniques for his students

7. Technical methods for teaching people with movement disabilities

The disability in movement (handicapped) may impose restrictions on the child's participation in school activities, and lead to deficiencies in the educational process, so that people with movement disabilities use tools like ordinary people such as educational television, video, overhead projector, transparencies projector, magic lantern device, Computer and other devices that are suitable for the nature of the handicapped.

IV. Conclusion:

The use of technological means for people with special needs varies according to the nature of the disability, so these means have become necessary. Well-designed computer programs help them to pay individual attention, because they enhance the interactive educational environment in the learning process and develop a sense of personal achievement. Technological tools form an electronic communication system, through that people with special needs receive information through them through their strongest sensory model and can quickly control the information, and thus they focus their attention on the content of the information and not on the reception process, and therefore the expressive communication improves according to the same method in which it improves receptive communication.

V. Referrals and references:

Abdel-Aty, H. A.-B. (2022, 10 13). Educational technology for people with special needs. Récupéré sur www.almarefh.net

Al-Aujan, R. (2022, 10 12). stages of diagnosis and treatment plan for children with special needs. Récupéré sur www.ziid.net

Al-Othman, I. b. (2022 , 10 12). Foundations and Rules of Diagnosis for People with Special Needs. Consulté le at 23.00h, sur www.kenanaonline.com

Isani, R. A.-T. (2010). Modern Technological Media and Its Impact on Audio-visual Media . Riyadh: Gulf Radio and Television.

Jabara, J. A. (2001). Sociology of Media. Egypt: Wafaa Printing and Publishing House.

Othman, I. B. (2022, 10 12). Foundations and Rules of Diagnosis for People with Special Needs. Récupéré sur www.kenanaonline.com

Qahtan, D. (2005). Introduction to Special Education . Amman: 1st edition, Wael published house.

Rabi, A. T. (2008). Special Education. Cairo: 1st Edition, Taiba Publishing,.

Saeed, A. H. (2005). Early Hearing, Speech and Speech Skills. Amman: 1st edition , OsamaPublishing House.