



Ashtavakra Institute of Rehabilitation Sciences & Research
Formerly Special Art School

App. by Rehabilitation Council of India, Ministry of Social Justice & Empowerment, Govt. of India
Affiliated to GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY
PSP, Institutional Area, Madhuban Chowk, Rohini Delhi-85, Ph : 011-27550012/13
Fax : 011-27550018 • Email : info rehab@tecnia.in Website : www.rehab.tecnia.in

Welcome to Ashtavakra Journal Club
Session 2021-2022
B.Ed Spl. Edu. HI

Date: 16/8/22

Time: 2:00 PM

TOPIC- Learning through Assistive Devices: A case of Students with Hearing Impairment.

Author – Muhammad Shahid Farooq*, Aasma **, Umaira Iftikhar***

Name of the Journal (APA) - Muhammad Shahid Farooq*, Aasma **, Umaira Iftikhar*** Learning through Assistive Devices: A case of Students with hearing impairment.

ABSTRACT

Objectives: This study intended to:

- Identify various assistive devices being used by students with hearing impairment.
- Explore the perceptions of parents of children with hearing impairment about benefits of the assistive devices.
- Investigate effectiveness of assistive technologies on the learning of students with hearing impairment.

Method: The study was descriptive in its nature. This study aimed to explore the learning experiences of hearing-impaired children using assistive technologies.

Result: Assistive technologies help individuals to spend their lives independently (Hameed & Bano, 2009). "Technology has opened many educational doors to children, particularly to children with disabilities. Alternative solutions based on technology are accommodating physical, sensory, and cognitive impairments in many ways" (Dede, 1998, p.73). Selected and useful solutions have been adapted to the individual's needs of disabilities. User centered approaches has been taking flexibility to help out the persons with disabilities (Penaud, Mokhtari & Abdulrazak, 2004).

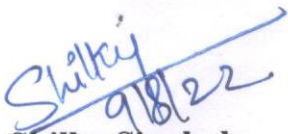
Assistive devices are more useful and with the help of these devices "desired sound is sent to the listener's ears directly with improved signals to background noise ratio and reduce effects of poor room acoustics and diffused sounds" (Yi-Lin, 2005). The cost of assistive technology decreases as much as it profits to students with hearing loss (Wald, 2009).

Conclusions: Assistive devices are distinguished tools used by students with hearing impairment. This study aimed to analyze the effectiveness of assistive technologies on the learning of students with hearing impairment. It is concluded that students are more independent learners and good achievers, no matter what kind and form of assistive devices being used by them. Among different forms of high and low tech. assistive technologies, hearing aids, cochlear implants, vibrotactiles, loop, infrared and F.M systems are most commonly used by children with hearing impairment. Hearing aids are most preferred and affordable devices to children with hearing impairment in Pakistani context. This study also conceded that there is a clear difference in the learning achievements of students with hearing impairment who are using high tech assistive technologies in comparison to low tech assistive technologies. Parents' perceptions about assistive technologies have also shown that their children's learning, communication and independency are increased with the use of assistive technology.

Assistive technology has brought families on the edge of survival for their child with such type of disability. The issue that hinders the use of assistive technologies for most of the children with hearing impairment is affordability of equipments. But mostly the families are striving to meet their children needs at any cost. This study divulges the benefits of assistive technologies on the lives of children with hearing impairment who were in more critical situation to develop their lives nevertheless assistive technology has changed their lives.

Keywords: Hearing impaired children, assistive technology, assistive learning, and assistive devices.

Presenter: Mahi Pal

 Shilky
9/8/22

Shilky Singhal

Ashtavakra Journal Club Incharge
HOD Learning Disability Department

 Sanjana
9/8/2022

Sanjana Mittal

Deputy Director