Disability Awareness Begins With You



Hearing impairment is defined by IDEA as "an impairment in hearing, whether permanent or fluc- 4. tuating, that adversely affects a child's educational performance." Deafness is defined as "a hearing impairment that is so severe that the child is impaired in processing linguistic information through 5. hearing, with or without amplification." Hearing loss can be divided into the categories of EDUCATIONAL IMPLICATIONS "prelingual" and "postlingual," according to Hearing loss or deafness does not affect a per- been said. whether the deaf person lost hearing before or after son's intellectual capacity or ability to learn. Devices that create a visual environment in the learning spoken language. The main problem fac- However, children who are either hard of hear- home include ring signalers for the telephone ing prelingually and early postlingually deaf per- ing or deaf generally require some form of spe- and the doorbell, sensors that detect an infant's sons is the acquisition of signed or spoken lan- cial education services in order to receive an cry, alarm clocks that vibrate the bed and closed guage. Postlingually deaf individuals who lost adequate education. Such services may include: caption decoders for television sets. Special dehearing in adolescence or adulthood have acquired. • or adventitious, hearing loss and are often known as "late-deafened."

INCIDENCE

Approximately three per 1000 babies are born with a significant hearing loss, and many more children • are born with milder forms of hearing loss. 14.9% of US children aged six to nineteen have a measurable hearing loss in one or both ears. However, the • number of children with hearing loss and deafness is undoubtedly higher, since many of these students may have other disabilities as well and may be • served under other categories.

CHARACTERISTICS

It is useful to know that sound is measured by its • loudness or intensity (measured in units called Children who are hard of hearing will find it hearing" are acceptable nomenclature. "Hearingdecibels, dB) and its frequency or pitch (measured much more difficult than children who have impaired" is acceptable to many of those who in units called hertz, Hz). Impairments in hearing normal hearing to learn vocabulary, grammar, are hard of hearing, but not to some culturally can occur in either or both areas, and may exist in word order, idiomatic expressions, and other deaf people. "Deaf and dumb" and "deaf-mute" only one ear or in both ears. Hearing loss is gener- aspects of verbal communication. For children are considered offensive. ally described as slight, mild, moderate, severe, or who are deaf or have severe hearing losses, People who combine understanding of the backprofound, depending upon how well a person can early, consistent, and conscious use of visible ground and practical issues associated with deaf hear the intensities or frequencies most greatly as- communication modes and/or amplification and or hard-of-hearing individuals with patience and sociated with speech. There are five types of hear- aural/oral training can help reduce this language empathy will find working with these individuing loss.

- (the conduction pathways for sound to reach implications of deafness within the family.
- age to the delicate sensory hair cells of the oral method plus signs and fingerspelling. inner ear or the nerves which supply it. These ASSISTIVE DEVICES

use of a hearing aid impossible.

- the outer or middle and the inner ear.
- worsens over the course of time.

- training from a specialist;
- amplification systems;
- who use manual communication;
- favorable seating in the class to facilitate vide a relay service for TDD users. speechreading;
- captioned films/videos;
- the student can fully attend to instruction:
- sign language; and
- counseling.

delay. Since the great majority of deaf children als a source of deep reward. Conductive hearing losses are caused by dis- (over 90%) are born to hearing parents, proeases or obstructions in the outer or middle ear grams should provide instruction for parents on

the inner ear). This usually affects all frequen- People with hearing loss use oral or manual cies of hearing evenly and do not result in means of communication or a combination of severe losses. A person with a conductive the two. Oral communication includes speech, hearing loss usually is able to use a hearing speechreading and the use of residual hearing. aid well or can be helped medically or surgi- Manual communication involves signs and fingerspelling. Total Communication, as a Sensorineural hearing losses result from dam- method of instruction, is a combination of the

hearing losses can range from mild to pro- Although hearing aids are capable of a large found. They often affect the person's ability to amount of amplification, no amount of amplifihear certain frequencies more than others. cation can replicate a hearing person's ability to Thus, even with amplification to increase the tolerate both soft and loud noises. For example, sound level, a person with a sensorineural a person with normal hearing can hear a cricket

hearing loss may perceive distorted chirp while hearing an airplane flying overhead. sounds, sometimes making the successful The hearing aid user, however, in amplifying the cricket to an audible level, will also amplify the A mixed hearing loss refers to a combina- airplane to an unbearable volume. When speaktion of conductive and sensorineural loss ing with persons who prefer lip reading, you and means that a problem occurs in both should face the person directly, and speech should be clear at a normal volume and rate. A central hearing loss results from damage Sentences should be rephrased rather than reor impairment to the nerves or nuclei of peated, and it should be made clear when a new the central nervous system, either in the subject is being introduced. The person should pathways to the brain or in the brain itself. be allowed to interrupt if something is missed. The progressive hearing loss is one that Looking away from the person should not be done while talking. Communication may be verified by asking the person to repeat what has

regular speech, language, and auditory vices for communication include telephone amplifiers, speakerphones, FM and infrared amplification systems and the "TDD," or Telecommuservices of an interpreter for those students nication Device for the Deaf. The Americans with Disabilities Act requires each state to pro-

Some deaf people, typically the late-deafened, use a "hearing ear," "assistant" or "hearing assistance of a notetaker, who takes notes guide" dog specially trained to alert its owner to for the student with a hearing loss, so that specific sounds. These dogs wear bright orange leashes, and as with the seeing eye dogs of the instruction for the teacher and peers in blind, they should be treated as working animals alternate communication methods, such as rather than pets and allowed to accompany individuals wherever possible.

In describing individuals, "deaf" and "hard of

For more information or support:

American Society for Deaf Children

1820 Tribute Road, Suite A Sacramento, CA 95815 Parent hotline: 1-800-942-2732 Business telephone: 1-916-641-6084

National Association of the Deaf

814 Thaver Ave Silver Spring, MD 20910-4500 Telephone: 1-301-587-1788 (voice); 1-301-587-1789 (TDD)

Registry of Interpreters for the Deaf

8630 Fenton St., Suite 324 Silver Spring, MD 20910 Telephone: 1-301-608-0050 (TDD/voice)