

Enjoy your
senses

Listen up!

Hearing
Awareness Week
2004
(22/08- 28/08)

Falls of Sound will
provide free
screenings in local
pharmacies.



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Clinical measurement of hearing

The audiologic assessment performed at Falls of Sound includes measurement of pure-tone air and bone conduction thresholds, speech reception threshold, and speech discrimination; tympanometry; and acoustic reflex testing.

Tympanometry measures sound reflection from the tympanic membrane, with varying air pressure (+200 to -400 daPa) in the ear canal. The maximum compliance peak occurs when ear canal and middle ear air pressures are equal, thus maximizing acoustic transmission through the middle ear. The compliance peak, therefore, indicates pressure of the middle ear and implies the efficacy of Eustachian tube function. The height of the compliance peak reflects mobility, or conversely, stiffness, of the tympanic membrane and middle ear.

Tympanograms are classified as type A, B or C.

Type A, or normal tympanogram, but it occurs in some otosclerotic ears, particularly in early stages of otosclerosis. The curve has a peak (point of max admittance) at or near normal atmospheric pressure, within the range of -150 to +100 daPa, and compliance is 0.3-2.5 cm³.

Type As (A shallow) suggests a stiffened middle ear system. The peak is -150 to +100 daPa, and compliance is less than 0.3 cm³. This type may suggest a glue ear, a thickened or scarred eardrum, or patients with ossicular or stapes fixation.

Type Ad (A deep) suggests a flaccid tympanic membrane or a disarticulation of middle ear ossicles. The peak is -150 to +100 daPa, and compliance is more than 2.5 cm³.

Type B is a flat trace, has no distinct point of maximum admittance. Type B tympanograms must be interpreted in conjunction with ear canal volume readings.

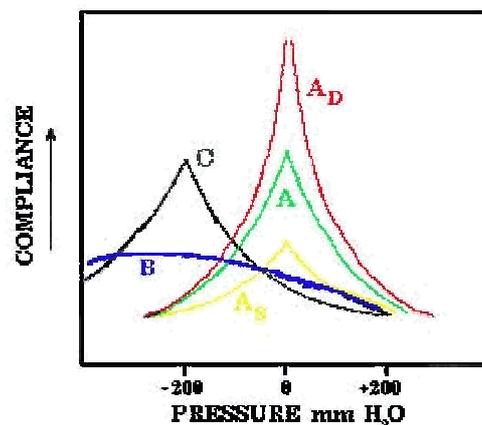
Average ear canal volumes for children are 0.42-0.97 mL. Average adult volumes are 0.63-1.46 mL.

Type B (normal ear canal volume) usually suggests otitis media.

Type B (small ear canal volume) may suggest that the ear canal is occluded with wax or that the immittance probe is pushed against the side of the ear canal.

Type B (large ear canal volume) suggests grommets or perforation of the tympanic membrane.

Type C suggests significant negative pressure in the middle ear system and may suggest developing or resolving otitis media. Additionally, this type indicates a malfunctioning Eustachian tube. Immittance peak is measurable, but compliance peak is less than -150 daPa.



Falls Of Sound

Hearing Services

Home visits are available on request every weekday from 6 pm till 9 pm and Saturday from 8.30 am till 12 am.

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318 Moggill Road
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SmartLink

The new benchmark in FM communication

SmartLink is the first communication device to incorporate threefold solutions in one instrument

- Advanced FM features
- Hearing instrument remote control
- A Bluetooth link for cell phone use

Today's fast-moving world presents many communication challenges to people with hearing loss. These include understanding speech over distance and conversing in noisy, echo-filled rooms. They also extend to the effective use of modern communication tools such as cellular phones and video-conferencing.

SmartLink is a communication gateway to all situations where understanding perfectly, all of the time, is key. The unique innovation, SmartLink, meets the needs of people with hearing loss allowing them to communicate effectively in all environ-

SmartLinkSM SX



The gateway to communication

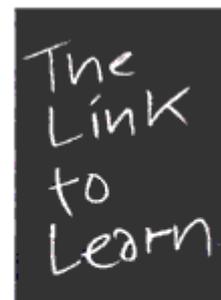
EduLink

EduLink is a miniaturized FM system that Phonak has developed especially in the context of specific performance deficits.

Specific performance deficits are impairments of learning and performance in normally intelligent children with no evident physical or mental health issue as well as normal hearing.

Many children with specific performance deficits have one thing in common: difficulty with filtering speech from general environmental noise. This puts them under additional strain in the classroom. EduLink enables the child to receive the teacher's voice at any time without difficulty - even with a great deal of environmental noise.

EduLink is used to complement existing therapies in children with Auditory Processing Disorders (APD), Attention Deficits Disorders (ADD), ADD with Hyperactivity (ADHD) and Learning Disabilities.



EduLinkSM

