2015 NAEH Conference
Shining Light on the Senses

Common Conditions
of the Ears
External Ear - Canal
External Otitis
Infection in ear canal

Swimmer’s ear

Clear discharge
Normal liquid ear wax

Normal dry ear wax
Impacted liquid ear wax

Impacted dry ear wax
Left over Q-tip

Attack of the Earbud
Things You’ll Find In Children’s Ears
Exostosis of the Ear Canal
Middle Ear
Normal Eardrum

Perforated Eardrum
Q-tip perforating the eardrum

Traumatic perforation to the eardrum from a Q-tip
Myringitis – Infection of the Eardrum
Eustachian Tube at back of Throat

Right eustachian tube orifice closed at rest

Right eustachian tube orifice opens with swallow
Middle Ear Infection – Otitis Media

OTITIS MEDIA
Pressure on the eardrum, and fluid restricts the movement of the bones of the middle ear, which impairs hearing.

INFLAMED EARDRUM
The eardrum is initially stretched inward, causing pain.

As an infection progresses, the fluid pressure can cause the eardrum to bulge outward.

The Eustachian Tube becomes inflamed and blocked.
Serous Otitis Media
(Otitis Media with Effusion)

Normal Ear
(no fluid)

Some Fluid
(air-fluid levels)

Effusion
(full of fluid)
Tube in the eardrum
Hey Moms,

instead of duct tape – try Esoteric Healing!
Figure 4.12 (a) During ascent, the ear drum bulges outward as air pressure in the outer ear declines while the pressure in the middle ear stays the same. (b) During descent, the ear drum bulges inward as air pressure in the outer ear increases while pressure in the middle ear remains the same. (c) Opening of the eustachian tube equalizes the pressure in the middle and outer ear and the ear drum flattens with a popping sound. [After Jack Williams, USA Today: The Weather Book. Copyright 1992 Vintage Books, New York, New York.]
Otosclerosis
Indicates a Stiffness of the Eardrum
Inner Ear

Conductive hearing loss occurs when sound waves do not reach the inner ear.

Sensorineural hearing loss occurs when sound waves are not processed correctly.

Middle Ear  |  Inner Ear

Outer Ear  |  Conductive

Sensorineural
Hearing Loss Frequencies
Danger Zone
Can result in permanent hearing loss

Decibels

whisper quiet room light rainfall dishwasher vacuum cleaner alarm clock, busy street lawn mower, power tools snowmobile, chain saw bass drum loud music, remote control airplane car stereo, band practice jackhammer firearms, air raid siren, jet metal concert

Source of noise

Moderate Very loud Extremely loud Painful
CAN YOU HEAR ME NOW !!!
Vertigo
Meniere’s Disease
Tinnitus
Oversensitive Hearing
Hyperacusis
Ear Crystals
Benign Paroxysmal Positional Vertigo (BPPV)
Ear Crystals (BPPV)
Muffled Hearing
Selective Hearing

"Selective Hearing"
We ALL have it...

Where's yours set????
Our Pets can have Selective Hearing!

Yes, I heard you calling me.

Did you hear me ignoring you?

My dog can't hear me yelling at him to stop chasing squirrels, but he can hear a cheese wrapper from 500 miles away.
Can You Wiggle Your Ears?

Everything's a tradeoff - now that I can walk upright, I can't wiggle my ears any more.
References