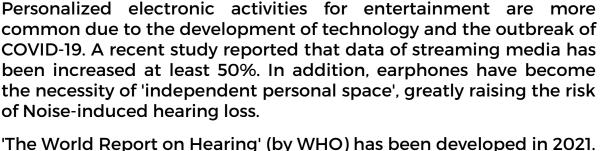


# Hearing







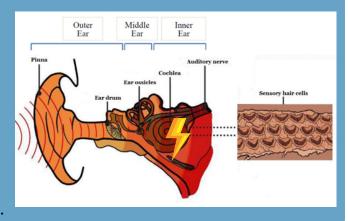


'The World Report on Hearing' (by WHO) has been developed in 2021. It forecasted nearly 1 in every 4 people is expected to have some degree of hearing loss, and 1 in 14 will require hearing care by 2050.

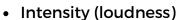


### **Permanent hearing loss**

Sudden blasts of noise or exposure to loud noise will damage the sensory hair cells in the inner ear and cause noise-induced hearing impairment. Due to the fact that sensory hair cells will not regenerate, once damaged, permanent hearing loss occurs.







- Duration (length of time)
- Frequency of exposure (how often)





Normal conversation 60
Vacuum cleaner 80

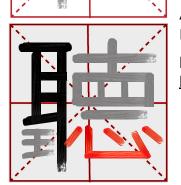


8 hours

### Long / Repeated exposure ( at or above 85 dB ) can cause hearing impairment

Motorcycle (average) 100 15 minutes Ambulance siren 120 Dangerous

Firecracker 150 Reaching the threshold of pain



### Disadvantages/possible consequences of hearing impairment In general For children

- Mental health
- · Quality of life
- Language development
- Ability to learn new things
- Academic
- Language skills
- Social
- Behavioral





### **Checklist of Hearing Loss**

### <u>In general</u>

Ringing in the ears / Have earache or ear discharge
Delayed response to soft sounds
Show poor understanding of what other people are saying
Turn head to one side constantly while listening
Tend to lean forward or pay extra attention to the
speaker's face while listening
Often complain that other people are not speaking clearly
Show difficulty locating the sound source
Often request for repetition by saying 'Pardon?' or 'Say that
again' during a conversation
Have unclear speech
Often give irrelevant answers or misinterpret instructions
Understand speech much poorer than others in a noisy
environment
Confuse words with similar sounds e.g. 'sin' and 'tin'

### For child student

Cannot response immediately to verbal instructions
during group activities.
Can respond only after watching peers' responses
Rely on the notes and explanations from classmate
to understand what the teacher has taught
Always miss the letter "s" in English dictation
Has poorer performance in subjects which demand
listening
Poor oral expression and comprehension skills
compared with students of the same age
Prefer staying alone and not willing to participate in
group activities

## '60-60 Rule'



Adjust the volume of earphones to no more than **60%** of maximum

+

Limit the usage time less than 60 minutes per day

#### **Practicable actions**

- Increase the frequency of breaks
- Use the built-in function to restrict the maximum output volume
- Deep-in-the-ear earphones produce louder sound at the same volume setting, hence, the volume should be lower when playing powerful music.
- Block out noise by wearing appropriate hearing protection devices (such as earplugs and earmuffs), even for short exposures

Noise-induced hearing loss is preventable if we persist in safe listening habits. Permanent hearing loss sparks off a chain of disadvantages and loses the chance to hear beautiful sounds. Protecting hearing health by adopting the '60-60 Rule'!

